TENDICATION, OR ELECTRICAL CONDITION MEASUREMENT  1.02 Of audio measurements of a data retrieval  1.03 Of data transmission 1.04 .Qualifying line for data transmission 2.05 .Including fault responsive disconnection of tested component 2.06 component 2.07 disconnection of tested component 2.08 .Of hybrid or echo suppressor or canceller 2.09 .Of repeater 2.00 .Of repeater 2.00 .Of centralized switching system 2.01 .Software compatibility 2.02 .Maintenance console 2.03 .Trouble ticket reporting 2.05 .Reackup system 2.06 .Of line interface circuitry 2.07 .Fault detection or fault location on telephone link (e.g., continuity, leakage) 2.08 .Maintenance console 2.09Having special connector 2.09Noise 2.00Having special connector 2.00Fault detection of caveator 2.00Teatrical special connector 2.00Teatrical special connector 2.00Teatrical special special connector 2.00Teatrical special special connector 2.00Teatrical	1 01		22.01	By loopback
Signal   S	1.01	DIAGNOSTIC TESTING, MALFUNCTION		
1.02				
retrieval 1.03 .Of data transmission 1.04 .Oualifying line for data 2.05	1 02	· · · · · · · · · · · · · · · · · · ·	22.03	-
1.03 Of data transmission 1.04 .Qualifying line for data 1.05 transmission 2.06 .Including fault responsive disconnection of tested component 2.07 disconnection of tested component 3.06 hybrid or echo suppressor or canceller 4.06 repeater 2.07 Por detection of eavesdropping device 8. With blocking of normal usage 9.07 centralized switching system 9.01 .Software compatibility 9.02 .Maintenance console 9.03 .Trouble ticket reporting 9.04 .Record or report generation 9.05 .Backup system 9.06 .Of line interface circuitry 14 .Of plural exchange network 14.01 .By automatic testing sequence 10.02 .By call generator 10.03 .Script file generation or execution 11 .Routiner 12 .With dedicated testing line or trunk 13 .Of call timing or charging equiment 15.01 .Of switching equipment or network element 15.02 .Advanced intelligent network 15.03Provisioning of service 15.04 .Of switching path 17Of switching path 18Puse of call address signal 19Rapid manual connecting structure for test equipment 10 .Of switching selector 11Rapid manual connecting structure for test equipment 12Papting portable test set (e.g., lamp) 10Busing portable test set (e.g., lamp) 10Suript file generation 11Rapid manual connecting structure for test equipment 12Papting portable test set (e.g., lamp) 13Provisioning of service 15Papting portable test set (e.g., lamp) 15Papting portable test set (e.g., lamp) 16Papting portable test set (e.g., lamp) 17Rapid manual connecting structure for test equipment 18Rapid manual connecting structure for test equipment 19Rapid manual connecting structure for test equipment 19Rapid manual connecting structure for test equipment 19Rapid manual connecting structure for test equipment 19Sapting portable test set (e.g., lamp) 19Woltage or current detector 19Voltage or	1.02			location on telephone link
1.04Qualifying line for data transmission  2	1 03			(e.g., continuity, leakage)
transmission  2			22.04	Of digital loop carrier
22.06	1.01		22.05	Pair gain test controller
disconnection of tested component connecting component canceller 22.08  Jof hybrid or echo suppressor or canceller 22.08  Mith blocking of normal usage device 24  Mith blocking of normal usage 25  Jof centralized switching system 26.01  Josephane remains and the statemation or location or loca	2		22.06	Having special connector
Of hybrid or echo suppressor or canceller canceller canceller   22.08  Noise  ondition  Oof switching expath  oof switching path  oof switching path  oof switching elector  oof switching selector  oof switching elector  oof switching elector  oof switching elector  oof switching selector  oof swi	_		22.07	Telephone multiconducting
Of hybrid or echo suppressor or canceller   22.08  Noise  Noise  Noise  Of Ine signalling  Define signalling  D		component		wires (e.g., tip, ring and
canceller 23Noise 4 .Of repeater 23Of line signalling 7 .For detection of eavesdropping device 8With blocking of normal usage 9Of centralized switching system 9.01Software compatibility 9.02Maintenance console 9.03Trouble ticket reporting 9.04Record or report generation 9.05Backup system 9.06Of line interface circuitry 14Of plural exchange network 14.01Fault segmentation (e.g., error location in network) 10.01By automatic testing sequence 10.02By call generator 10.03Script file generation or execution 11Routiner 12With dedicated testing line or trunk 13Of call timing or charging equiment 14Of switching equipment or network element 15.02Advanced intelligent network 15.03Provisioning of service 15.04Of plural AIN elements 15.05Determining fault location 16Of switching path 17Of switching selector 18By use of call address signal 19Rapid manual connecting structure for test equipment condition (e.g., lamp) 20Using portable test set (e.g., handset type)  22Noise 24Electrical parameter measurement (e.g., attenuation) 25Conductor identification or location 26Conductor identification or location 26Conductor identification or location 26With a programmable or self-test device 27 .01Electrical parameter measurement (e.g., attenuation) 26Conductor identification or location 26Vith a programmable or self-test device 27 .01Electrical parameter measurement (e.g., attenuation) 27Conductor identification or location 26Vith a programmable or self-test device 27 .01Electrical parameter measurement (e.g., attenuation) 28Conductor identification or location 29Vith a programmable or self-test device 27 .01Electrical parameter measurement (e.g., attenuation) 27Vith a programmable or self-test device 27 .01By analysis of testing signal 27 .03By analysis of testing signal 27 .04By analysis of testing signal 27 .05Having plectromechanical swit	3	.Of hybrid or echo suppressor or		ground wires)
For detection of eavesdropping device  With blocking of normal usage  Of centralized switching system  9.01Software compatibility  9.02Maintenance console  9.03Trouble ticket reporting  9.04Record or report generation  9.05Backup system  9.06Of line interface circuitry  14Of plural exchange network  14.01Fault segmentation (e.g., error location in network)  10.01 .By automatic testing sequence  10.02By call generator  10.03Script file generation or execution  11Routiner  12With dedicated testing line or trunk  13Of call timing or charging equiment  15.01Of switching equipment or network element  15.02Advanced intelligent network  15.03Provisioning of service  15.04Of plural AIN elements  15.05Determining fault location  16Of switching path  17Of switching selector  18By use of call address signal  19Rapid manual connecting structure for test equipment condition (e.g., lamp)  20Using portable test set (e.g., handset type)  21Electrical parameter measurement (e.g., attenuation) Conductor identification or location  10Conductor identification or location  10Conductor identification or location  10Conductor identification or location  10Conductor identification or location  126.01Esting of network terminating interface, subscriber trunk interface, subscriber trunk  12With a programmable or self-test device  27.01By analysis of testing signal  27.02By analysis of testing signal  27.03By analysis of testing signal  27.04By automatic testing sequence  (e.g., programmable, test, script or test call generation program)  27.05Having plugging maintenance or test module  28By automatic testing line or terminal  29By simulator (e.g., testing interface, subscriber trunk  18Detrical prameter  18By use of call address signal  29  20Of data transmission instrument  21Detrical prameter  22Of data transmission instrument  23Of data transmission instrume			22.08	Noise
device    Mith blocking of normal usage   25	4	.Of repeater	23	Of line signalling
## With blocking of normal usage   Second control idea witching system   Software compatibility   Software compatibility	7	.For detection of eavesdropping	24	Electrical parameter
9 Of centralized switching system 9 07 centralized switching system 9 0.01 .Software compatibility 9.02 .Maintenance console 9.03 .Trouble ticket reporting 9.04 .Record or report generation 9.05 .Backup system 9.06 .Of line interface circuitry 14 .Of plural exchange network 14.01 .Fault segmentation (e.g., error location in network) 10.02 .By automatic testing sequence 10.03 .Script file generator 10.03 .Script file generator 11Routiner 12With dedicated testing line or execution 11Routiner 12With dedicated testing line or trunk 13 .Of call timing or charging equiment 15.01 .Of switching equipment or network element 15.02Advanced intelligent network 15.03Provisioning of service 15.04Of plural AIN elements 15.05Determining fault location 16Of switching selector 17Of switching selector 18By use of call address signal 19Rapid manual connecting structure for test equipment 20Of switchboard element 20Of switchboard element 20Of switchoard element 20Of switchoard element 21Sign portable test set (e.g., handset type)  25Conductor identification or location 1.Testing of network terminating interface, subscriber trunk interface, subscriber tunk interface, subscriber trunk interface or Settle device With a programmable or self- test deviceBy automatic testing sequence (e.g., programmable or self- test deviceBy automatic testing sequence (e.g., surge or short circuit (e.g., surge or short circuit (e.g., surge or short circuit (e.g., surge or shor		device		measurement (e.g.,
9.01Software compatibility 9.02 .Maintenance console 9.03Trouble ticket reporting 9.04Record or report generation 9.05Backup system 9.06Of line interface circuitry 14Of plural exchange network 14.01Fault segmentation (e.g., error location in network) 10.02By call generator 10.03Soript file generation 11Routiner 12With dedicated testing line or trunk 13Of call timing or charging equiment 15.01Of switching equipment or network element 15.02Advanced intelligent network (AIN) 15.03Provisioning of service 15.04Of switching path 17Of switching path 18By use of call address signal 19Rapid manual connecting structure for test equipment condition (e.g., lamp) 20Vising portable test set (e.g., lang) bandset type)  10Software compatibility 26.01 .Testing of network terminating interface, subscriber trunk interface, subscriber trunk interface, subscriber trunk interface, subscriber trunk interface, or service functionWith a programmable or self-test device .Testing of network terminating interface, subscriber trunk interface, subscriber trunk interface, or service functionWith a programmable or self-test device .Testing of network terminating interface, subscriber trunk interface, subscriber trunk interface, or service functionWith a programmable or self-test device .Testing of subscriber loop or terminalBy automatic testing signalBy automatic testing sequence (e.g., programmable, test, script or test call generation program)By automatic testing sequence (e.g., surge or short circuit protector)By automatic testing sequence (e.g., surge or short circuit protector)Having plugging maintenance or test moduleIncluding sampling measurement techniqueIncluding sampling measurement techniqueIncluding sampling measurement techniqueIncluding sampling measurement techniqueIncluding sampling measurement determinationOf switching pathG data transmission instrumentFull sequenceG data transmission inst	8	.With blocking of normal usage		•
9.02 .Maintenance console 9.03 .Trouble ticket reporting 9.04 .Record or report generation 9.05 .Backup system 9.06 .Of line interface circuitry 14 .Of plural exchange network 14.01Fault segmentation (e.g., error location in network) 10.02By automatic testing sequence 10.03Script file generation or execution 11Routiner 12With dedicated testing line or trunk 13Of call timing or charging equiment 15.01Of switching equipment or network element 15.02Advanced intelligent network 15.03Provisioning of service 15.04Of plural AIN elements 15.05Determining fault location 16Of switching path 17Of switching path 18By use of call address signal 19Rapid manual connecting structure for test equipment 20Of switchboard element condition (e.g., lamp) 21Using portable test set (e.g., handset type) 26.01 .Testing of network terminating interface, subscriber trunk interface, subscriber tox service functionWith a programmable or self-test device .Testing of subscriber loop or terminalBy automatic testing sequence (e.g., programmable, test, script or test call generation program)By automatic testing sequence [e.g., programmable or self-test deviceBy automatic testing sequence [e.g., programmable or self-test deviceBy automatic testing sequence [e.g., programmable or self-test deviceBy automatic testing sequence [e.g., programmable or fetBy automatic testing sequence [e.g., surge or short circuit (e.g., surge or short circuit (e.g., surge or sho	9	.Of centralized switching system	25	
1. Marine Handmer Consorting	9.01	Software compatibility		
1.	9.02	Maintenance console	26.01	
1. NewOrd of Teport Sementation   26.02   With a programmable or self-test device   14   Of plural exchange network   27.01   Esting of subscriber loop or terminal   27.02   By generating call signal   By automatic testing sequence   27.03   By analysis of testing signal   By call generator   27.04   By analysis of testing signal   By automatic testing sequence   (e.g., programmable, test, script or test call generation or execution   27.05   By automatic testing sequence   (e.g., programmable, test, script or test call generation program)   27.05   By automatic testing sequence   (e.g., programmable, test, script or test call generation program)   27.05   By analysis of testing signal   By automatic testing sequence   (e.g., programmable, test, script or test call generation program)   27.05   By analysis of testing signal	9.03	Trouble ticket reporting		•
1. Sackup system 14 Of plural exchange network 14.01Fault segmentation (e.g., error location in network) 10.01 By automatic testing sequence 10.02 By call generator 10.03 Script file generation or execution 11 Routiner 12 With dedicated testing line or trunk 13 Of call timing or charging equiment 15.01 Of switching equipment or network element 15.02 Advanced intelligent network (AIN) 15.03 Provisioning of service 15.04 Of plural AIN elements 15.05 Determining fault location 16 Of switching path 17 Of switching path 18 By use of call address signal 19 Rapid manual connecting structure for test equipment 20 Of switchboard element 20 Of switchboard element 21 Using portable test set (e.g., handset type) 27.01 Testing of subscriber loop or terminal 27.02 Testing of subscriber loop or terminal 27.02 By analysis of testing signal 27.03 By automatic testing sequence (e.g., programmable, test, script or test call generation program)  By automatic testing sequence (e.g., programmable, test, script or test call generation program)  Having protection circuit (e.g., surge or short circuit protector)  Having plugging maintenance or test module  27.03 Having plugging maintenance or test module  27.05 Having plugging maintenance or test module  27.06 Having plugging maintenance or test module  27.07 Having plugging maintenance or test module  27.08 Including sampling measurement technique  29.01 Terminal arrangement to enable remote testing (e.g., testing interface)  29.02 By simulator (e.g., computer simulates testing personnel)  29.03 Voltage or current detector  29.04 Voltage or current detector  29.05 Metallic loop testing  29.06 By dialing back the calling terminal	9.04	Record or report generation	26.02	
14.01Of plural exchange network 14.01Fault segmentation (e.g., error location in network) 10.01By automatic testing sequence 10.02By call generator 10.03Script file generation or execution 11Routiner 12With dedicated testing line or trunk 13Of call timing or charging equiment 15.01Of switching equipment or network element 15.02Advanced intelligent network (AIN) 15.03Provisioning of service 15.04Of plural AIN elements 15.05Determining fault location 16Of switching selector 18By generating of subscriber loop or terminal 27.02By generating call signal 27.03By automatic testing sequence (e.g., programmable, test, script or test call generation program) 27.05Having protection circuit (e.g., surge or short circuit protector) 27.06Having plugging maintenance or test module 27.08Including sampling measurement technique 27.09Including sampling measurement technique 28Of data transmission instrument 29.01Terminal arrangement to enable remote testing (e.g., testing interface) 29.02By simulator (e.g., computer simulates testing personnel) 29.03Voltage or current detector condition (e.g., lamp) 29.04Voltage or current detectorBy dialing back the calling terminal	9.05	Backup system	26.02	
14 Of plural exchange network 14.01 Fault segmentation (e.g., error location in network) 10.01 By automatic testing sequence 10.02 By call generator 10.03 Script file generation or execution 11 Routiner 12 With dedicated testing line or trunk 13 Of call timing or charging equiment 15.01 Of switching equipment or network element 15.02 Advanced intelligent network (AIN) 15.03 Provisioning of service 15.04 Of plural AIN elements 15.05 Determining fault location 16 Of switching path 17 Of switching path 18 By use of call address signal 19 Rapid manual connecting structure for test equipment 20 Of switchboard element condition (e.g., lamp) 21 Using portable test set (e.g., based on the calling terminal contexting handset type) 27 .02 By generating call signal 27 .03 By generating call signal 27 .03 By analyysis of testing signal 27 .03 By analysis of testing signal 28 By automatic testing sequence (e.g., programmable, test, script or test call generation program)  18 Having electromechanical switch or relay 27 .07 Having plugging maintenance or test module 27 .08 Having plugging maintenance or test module 27 .08 Including sampling measurement technique 28 Of data transmission instrument 29 .01 Terminal arrangement to enable remote testing (e.g., testing interface) 29 .02 By simulator (e.g., computer simulates testing personnel) 29 .03 Voltage or current detector 29 .04 Voltage or current detector 29 .05 Metallic loop testing 29 .06 By dialing back the calling terminal	9.06	Of line interface circuitry	27 01	
error location in network) error location in network)  10.01 .By automatic testing sequence 10.02By call generator 10.03Script file generation or execution  11Routiner 12With dedicated testing line or trunk 13Of call timing or charging equiment 15.01Of switching equipment or network element 15.02Advanced intelligent network (AIN) 15.03Provisioning of service 15.04Of plural AIN elements 15.05Determining fault location 16Of switching path 17Of switching selector 18By use of call address signal 19Rapid manual connecting structure for test equipment 20Of switchboard element 20Using portable test set (e.g., 21Using portable test set (e.g., 22By analysis of testing signal 27.03By automatic testing sequence (e.g., programmable, test, script or test call generation program)Having protection circuit (e.g., surge or short circuit protector)Having plugging maintenance or test moduleIncluding sampling measurement techniqueOf data transmission instrumentTerminal arrangement to enable remote testing (e.g., computer simulates testing personnel)Voltage or current determination 29.03By dialing back the calling terminal	14	Of plural exchange network	27.01	
10.01By automatic testing sequence 27.03By analysis of testing signal 10.02By call generator 27.04By automatic testing sequence (e.g., programmable, test, script or test call generation program)  11RoutinerWith dedicated testing line or trunkOf call timing or charging equimentOf switching equipment or network elementAdvanced intelligent network (AIN)  15.02Advanced intelligent network (AIN)  15.03Provisioning of serviceDetermining fault locationOf switching pathDetermining fault locationOf switching selectorDetermining fault location structure for test equipmentOf switchboard elementOf switchboard elementOf switchboard elementOf switchboard elementOf switchboard elementOf switching back the calling handset type)  27.03By analysis of testing signalBy automatic testing sequence (e.g., programmable, test, script or testing sequence (e.g., programmable, test, script or test call generation program) Having protection circuit (e.g., surge or short circuit protector) Having plugging maintenance or test module Having plugging maintenance	14.01	Fault segmentation (e.g.,	27 02	
10.02By call generator 10.03Script file generation or execution 11Routiner 12With dedicated testing line or trunk 13Of call timing or charging equiment 15.01Of switching equipment or network element 15.02Advanced intelligent network (AIN) 15.03Provisioning of service 15.04Of plural AIN elements 15.05Determining fault location 16Of switching path 17Of switching selector 18By use of call address signal 19Rapid manual connecting structure for test equipment 20Of switchboard element 20Of switchboard element 21Using portable test set (e.g., programmable, test, script or test call generation program) 27.05Having protection circuit (e.g., surge or short circuit protector)Having electromechanical switch or relayHaving plugging maintenance or test moduleHaving plugging maintenance or test moduleHaving plugging maintenance or test moduleIncluding sampling measurement techniqueOf data transmission instrumentTerminal arrangement to enable remote testing (e.g., testing interface)By simulator (e.g., computer simulates testing personnel)Voltage or current detector condition (e.g., lamp) 29.04Voltage or current detectorBy dialing back the calling terminal		error location in network)		
10.03Script file generation or execution  11Routiner 12With dedicated testing line or trunk 13Of call timing or charging equiment 15.01Of switching equipment or network element 15.02Advanced intelligent network (AIN) 15.03Provisioning of service 15.04Of plural AIN elements 15.05Determining fault location 16Of switching path 17Of switching selector 18By use of call address signal 19Rapid manual connecting structure for test equipment 20Of switchboard element condition (e.g., lamp) 21Using portable test set (e.g., handset type)  (e.g., programmable, test, script or test call generation program) Having plotection circuit (e.g., surge or short circuit protector) Having electromechanical switch or relay Having plugging maintenance or test module Having plugging maintenance or test module Including sampling measurement technique Of data transmission instrument Terminal arrangement to enable remote testing (e.g., testing interface) By simulator (e.g., computer simulates testing personnel) Voltage or current detector condition (e.g., lamp)  29.04Voltage or current detectorBy dialing back the calling terminal		By automatic testing sequence		
execution  11Routiner  12With dedicated testing line or trunk  13Of call timing or charging equiment  15.01Of switching equipment or network element  15.02Advanced intelligent network (AIN)  15.03Provisioning of service  15.04Of plural AIN elements  15.05Determining fault location  16Of switching path  17Of switching selector  18By use of call address signal  19Rapid manual connecting structure for test equipment  20Of switchboard element  20Of switchboard element condition (e.g., lamp)  21Using portable test set (e.g., handset type)  script or test call generation program) Having protection circuit (e.g., surge or short circuit protector) Having electromechanical switch or relay Having plugging maintenance or test module Including sampling measurement technique Of data transmission instrumentTerminal arrangement to enable remote testing (e.g., testing interface) By simulator (e.g., computer simulates testing personnel) Voltage or current detectorMetallic loop testing Metallic loop testing terminal			27.04	
11Routiner 12With dedicated testing line or trunk 13Of call timing or charging equiment 15.01Of switching equipment or network element 15.02Advanced intelligent network (AIN) 15.03Provisioning of service 15.04Of plural AIN elements 15.05Determining fault location 16Of switching selector 17Of switching selector 18By use of call address signal 19Rapid manual connecting structure for test equipment 20Of switchboard element condition (e.g., lamp) 21Using portable test set (e.g., handset type)  27.06Having protection circuit (e.g., surge or short circuit protector)Having electromechanical switch or relayHaving plugging maintenance or test moduleHaving plugging maintenance or test moduleIncluding sampling measurement techniqueOf data transmission instrument remote testing (e.g., testing interface)Terminal arrangement to enable remote testing (e.g., testing interface)By simulator (e.g., computer simulates testing personnel)Voltage or current detector condition (e.g., lamp)Voltage or current detectorMetallic loop testingBy dialing back the calling terminal	10.03			
11Routiner 12With dedicated testing line or trunk 13Of call timing or charging equiment 15.01Of switching equipment or network element 15.02Advanced intelligent network (AIN) 15.03Provisioning of service 15.04Of plural AIN elements 15.05Determining fault location 16Of switching path 17Of switching selector 18By use of call address signal 19Rapid manual connecting structure for test equipment 20Of switchboard element 20Of switchboard element 20Of switchboard element condition (e.g., lamp) 21Using portable test set (e.g., handset type)  27.05Having protection circuit (e.g., surge or short circuit protector) Having plugging maintenance or test module Having protection circuit (e.g., surge or short circuit protector) Having plugging maintenance or test module Including sampling measurement technique Of data transmission instrument  29.01Terminal arrangement to enable remote testing (e.g., testing interface) By simulator (e.g., computer simulates testing personnel) Voltage or current determination Voltage or current detectorWetallic loop testing  29.05Metallic loop testing  29.06By dialing back the calling terminal				
12With dedicated testing line or trunk  13Of call timing or charging equiment  15.01Of switching equipment or network element  15.02Advanced intelligent network (AIN)  15.03Provisioning of service  15.04Of plural AIN elements  15.05Determining fault location  16Of switching path  17Of switching selector  18By use of call address signal  19Rapid manual connecting structure for test equipment  20Of switchboard element condition (e.g., lamp)  21Using portable test set (e.g., handset type)  (e.g., surge or short circuit protector) Having electromechanical switch or relay Having plugging maintenance or test module Treminal arrangement technique Of data transmission instrument  29.01Terminal arrangement to enable remote testing (e.g., testing interface) By simulator (e.g., computer simulates testing personnel) Voltage or current detector Voltage or current detector Metallic loop testing By dialing back the calling terminal			27.05	
13 Of call timing or charging equiment  15.01 Of switching equipment or network element  15.02 Advanced intelligent network (AIN)  15.03 Provisioning of service 15.04 Of plural AIN elements 15.05 Determining fault location 16 Of switching selector 17 Of switching selector 18 By use of call address signal 19 Rapid manual connecting structure for test equipment 20 Of switchboard element condition (e.g., lamp) 21 Using portable test set (e.g., handset type)  27.06 Having plugging maintenance or test module  Including sampling measurement technique  Of data transmission instrument  29.01 Terminal arrangement to enable remote testing (e.g., testing interface)  By simulator (e.g., computer simulates testing personnel)  Voltage or current detector determination  29.03 Voltage or current detector Metallic loop testing  29.05 Metallic loop testing  29.06 By dialing back the calling terminal	12			
equiment  15.01 Of switching equipment or network element  15.02 Advanced intelligent network (AIN)  15.03 Provisioning of service  15.04 Of plural AIN elements  15.05 Determining fault location  16 Of switching path  17 Of switching selector  18 By use of call address signal  19 Rapid manual connecting structure for test equipment  20 Of switchboard element  20 Of switchboard element condition (e.g., lamp)  21 Using portable test set (e.g., handset type)  27.07 Having plugging maintenance or test module  27.08 Having plugging maintenance or test module  Having plugging maintenance or test module  Having plugging maintenance or test module  Technique  Of data transmission instrument remote testing (e.g., testing interface)  Terminal arrangement to enable remote testing (e.g., computer simulates testing personnel)  Voltage or current detector determination  29.04 Voltage or current detector determination  29.05 Metallic loop testing  By dialing back the calling terminal	4.0			
15.01Of switching equipment or network element  15.02Advanced intelligent network (AIN)  15.03Provisioning of service  15.04Of plural AIN elements  15.05Determining fault location  16Of switching path  17Of switching selector  18By use of call address signal  19Rapid manual connecting structure for test equipment  20Of switchboard element condition (e.g., lamp)  21Using portable test set (e.g., handset type)  27.07Having plugging maintenance or test module  27.08Including sampling measurement technique  28Of data transmission instrument 29.01Terminal arrangement to enable remote testing (e.g., testing interface)  29.01By simulator (e.g., computer simulates testing personnel)  29.02Voltage or current detector determination  29.03Voltage or current detectorVoltage or current detectorDeterminal	13		27.06	Having electromechanical switch
network element  15.02Advanced intelligent network (AIN)  15.03Provisioning of service 15.04Of plural AIN elements 15.05Determining fault location 16Of switching path 17Of switching selector 18By use of call address signal 19Rapid manual connecting structure for test equipment 20Of switchboard element condition (e.g., lamp) 21Using portable test set (e.g., handset type)  27.08Including sampling measurement technique Of data transmission instrument 29.01Terminal arrangement to enable remote testing (e.g., testing interface) By simulator (e.g., computer simulates testing personnel)Voltage or current determination 29.04Voltage or current detectorMetallic loop testing 29.05Metallic loop testing terminal	1 - 01	-		or relay
15.02Advanced intelligent network (AIN)  15.03Provisioning of service 15.04Of plural AIN elements 15.05Determining fault location 16Of switching path 17Of switching selector 18By use of call address signal 19Rapid manual connecting structure for test equipment 20Of switchboard element condition (e.g., lamp) 21 .Using portable test set (e.g., handset type)  27.08Including sampling measurement techniqueOf data transmission instrument 29.01Terminal arrangement to enable remote testing (e.g., testing interface)By simulator (e.g., computer simulates testing personnel)Voltage or current detectorVoltage or current detectorMetallic loop testingBy dialing back the calling terminal	15.01		27.07	Having plugging maintenance or
(AIN)  15.03Provisioning of service 15.04Of plural AIN elements 15.05Determining fault location 16Of switching path 17Of switching selector 18By use of call address signal 19Rapid manual connecting structure for test equipment 20Of switchboard element condition (e.g., lamp) 21 .Using portable test set (e.g., handset type)  28Including sampling measurement techniqueOf data transmission instrumentOf data transmission instrumentOf data transmission instrumentOf data transmission instrumentDeterminal arrangement to enable remote testing (e.g., testing interface)By simulator (e.g., computer simulates testing personnel)Voltage or current detectorVoltage or current detectorMetallic loop testingBy dialing back the calling terminal	1 5 0 0			test module
15.03Provisioning of service 15.04Of plural AIN elements 15.05Determining fault location 16Of switching path 17Of switching selector 18By use of call address signal 19Rapid manual connecting structure for test equipment 20Of switchboard element condition (e.g., lamp) 21 .Using portable test set (e.g., handset type)  28Of data transmission instrument 29.01Terminal arrangement to enable remote testing (e.g., testing interface) By simulator (e.g., computer simulates testing personnel) Voltage or current detector determination 29.04Voltage or current detectorMetallic loop testing 29.05Metallic loop testing 29.06By dialing back the calling terminal	15.02	_	27.08	Including sampling measurement
15.04Of plural AIN elements 15.05Determining fault location 16Of switching path 17Of switching selector 18By use of call address signal 19Rapid manual connecting structure for test equipment 20Of switchboard element condition (e.g., lamp) 21 .Using portable test set (e.g., handset type)  28Of data transmission instrument 29.01Terminal arrangement to enable remote testing (e.g., testing interface) By simulator (e.g., computer simulates testing personnel)  29.03Voltage or current detectorVoltage or current detectorVoltage or current detectorMetallic loop testingBy dialing back the calling terminal	15 03			technique
15.05Determining fault location 16Of switching path 17Of switching selector 18By use of call address signal 19Rapid manual connecting structure for test equipment 20Of switchboard element condition (e.g., lamp) 21 .Using portable test set (e.g., handset type)  29.01Terminal arrangement to enable remote testing (e.g., testing interface) By simulator (e.g., computer simulates testing personnel)  29.03Voltage or current detectorVoltage or current detectorMetallic loop testing 29.05Metallic loop testing terminal		<u> </u>	28	Of data transmission instrument
16Of switching path 17Of switching selector 18By use of call address signal 19Rapid manual connecting     structure for test equipment 20Of switchboard element     condition (e.g., lamp) 21 .Using portable test set (e.g., handset type)  remote testing (e.g., testing interface) By simulator (e.g., computer simulates testing personnel)  29.02By simulator (e.g., computer simulates testing of current determination  29.03Voltage or current detector condition (e.g., lamp)  29.04Voltage or current detector condition (e.g., lamp)  29.05Metallic loop testing  29.06By dialing back the calling terminal			29.01	_
17Of switching selector 18By use of call address signal 19Rapid manual connecting structure for test equipment 20Of switchboard element condition (e.g., lamp) 21 .Using portable test set (e.g., handset type)  29.02By simulator (e.g., computer simulates testing personnel) 29.03Voltage or current detectorVoltage or current detectorMetallic loop testingBy dialing back the calling terminal				
18By use of call address signal 19Rapid manual connecting structure for test equipment 20Of switchboard element condition (e.g., lamp) 21 .Using portable test set (e.g., handset type) 22By simulator (e.g., computer simulates testing personnel) 23Voltage or current detectorVoltage or current detectorMetallic loop testingBy dialing back the calling terminal				•
19Rapid manual connecting structure for test equipment 20Of switchboard element condition (e.g., lamp) 21 .Using portable test set (e.g., handset type) 29.03Voltage or current detector current detector condition (e.g., lamp) 29.04Voltage or current detector current detector condition (e.g., lamp) 29.05Metallic loop testing 29.06By dialing back the calling terminal		_	29.02	
structure for test equipment  20Of switchboard element				
20Of switchboard element 29.04Voltage or current detector condition (e.g., lamp) 29.05Metallic loop testing 21 .Using portable test set (e.g., handset type) 29.06By dialing back the calling terminal	1.7		29.03	9
condition (e.g., lamp)  29.04Voltage or current detector  29.05Metallic loop testing  29.06By dialing back the calling terminal	20		20 04	
21 .Using portable test set (e.g., 29.06By dialing back the calling handset type) terminal				
handset type) terminal	21			
CELIIIIIAI			∠9.U0	
	22			CETIIITIIAT

29.07	For a fault caused by an off-	51	.With automatic dialing or
	hook status		transmission of recorded audio
29.08	For a fault caused by new		message
	added service or equipment	52	INCLUDING AID FOR HANDICAPPED
	<pre>(e.g., software compatible)</pre>		USER (E.G., VISUAL, TACTILE,
29.09	With historical operating		HEARING AID COUPLING)
	information database	55.1	HAVING NEAR FIELD LINK (E.G.,
29.1	Visual output (e.g., printing,		CAPACITIVE, INDUCTIVE)
	displaying)	56.1	HAVING LIGHT WAVE OR ULTRASONIC
29.11	Having telephone maintenance		LINK FOR SPEECH OR PAGING
	termination unit (e.g., MTU)		SIGNAL
30	Loop impedance (e.g.,	56.2	.Including fiber optic link
	resistance, capacitance)		within telephone network
31	Of line signalling generator	56.3	.Including infra-red link with
	(e.g., dial, tone code		landline telephone network
	generator)	67.1	AUDIO MESSAGE STORAGE, RETRIEVAL,
32.01	.Monitoring		OR SYNTHESIS
32.02	Trunk or long line	68	.Dynamic audio signal recording
32.03	AIN link		or reproduction
32.04	Subscriber line	69	Call originating
32.05	Call tracing	70	Call intercept or answering
33	Alarm or emergency (e.g., cut	71	Consecutive use of recorded
	line)		phrases or words to form
35	Listening-in or eavesdropping		message
	type	72	Sequential or repeated
36	FREE CALLING FROM PAYSTATION		announcement during single
37	EMERGENCY OR ALARM COMMUNICATIONS		call initiated cycle
	(E.G., WATCHMAN'S CIRCUIT)	73	Plural record carrier channels
38	.Personal monitoring (e.g., for	74	Remote control over telephone
	the ill or infirm)		line
39	.Responsive to sensed nonsystem	75	Remote dictation
	condition	76	Announcement selection or
40	Automatic dialing		replacement
41	Transmission of recorded audio	77	Control by generated tone
	message	78	Acoustic coupling
42	Plural conditions	79	With specified call initiated
43	Fire		cycle control circuitry
44	Intrusion	80	Voice signal presence
45	.Central office responsive to		responsive
	emergency call or alarm (e.g.,	81	Call termination responsive
	"911", operator position		(e.g., hang-up)
	display)	82	Having specified call
46	.Called line or station condition		<pre>initiation (e.g., ringing)</pre>
	responsive (e.g., recall if		responsive circuitry
	busy)	83	Structural detail of storage
47	.Plural alarms over single line		medium drive
48	.Announcement or alarm received	84	At switching facility (e.g.,
	at terminal station (e.g.,		central office, switchboard)
	"butt-in", alarm)	85	Recording of telephone signal
49	.Central station with plural		during normal operation
	substations	86	Inductive pickup
50	.By pulse or digital signal	87	Reproduced signal distributed
			over telephone line
		88.01	.Voice activation or recognition

88.02	Voice verification (e.g., voice	92.03	Having central station
	authorization, voiceprint,		equipment
	etc.)	92.04	Having subscriber station
88.03	Voice dialing		equipment
88.04	Voice controlled message	93.01	.Having transmission of a digital
	management		message signal over a
88.05	.Multilingual system or operation		telephone line
88.06	Language selection	93.02	Access restricting
88.07	.Digital signal processing (DSP)	93.03	Personal identification
88.08	.Message signal analysis	93.04	Two or more calls
88.09	Statistical analysis (e.g.,	93.05	Terminal interface circuitry
	time, date, length of message,	93.06	Digital
	etc.)	93.07	To plural lines or networks
88.1	Including data compression	93.08	Transmission scheme (e.g.,
88.11	.Display of message related		compression/decompression,
	information		transmission rate)
88.12	.Indication or notification of	93.09	Switching between different
	message		terminal types (e.g., voice/
88.13	.Multimedia system (e.g., voice	00 11	data switch)
	output combined with fax,	93.11	Among at least three terminal
00 11	video, text, etc.)	00 10	types
88.14	Presentation format conversion	93.12	Sales, ordering, or banking
88.15	Pager activation	02 12	system
88.16	.Voice message synthesis	93.13	Amusement (e.g., game, lottery)
88.17	.Interaction with an external	93.14	Having switching station
	nontelephone network (e.g.,	93.15	Having format conversion
00 10	Internet)	93.17	Having station display
88.18	.Interacting voice message	93.18	Having tone code recognition
00 10	systems		for generating alphanumeric
88.19	.Call source identification	02 10	characters
88.2	Automatic Number Identification	93.19	Having pressure or position
88.21	(ANI)		sensitive surface (e.g.,
00.21	Caller identification received	93.21	touch-screen, light pen)
88.22	at substation	93.21	Having conferencing
	.Message management	93.22	At pay station
88.23	Controlled by subscriber or	93.43	Having user information
00 04	caller		<pre>display (e.g., telephone number, name, address, etc.)</pre>
88.24 88.25	By generated toneMessage storage in centralized	93.24	Having electronic mail
00.45		93.25	Having remote database (e.g.,
	<pre>location (e.g., central office, PBX, etc.)</pre>	JJ.2J	videotex system)
88.26	Recording voice message from	93.26	By voice frequency signal
00.20	non subscriber caller	JJ.20	(e.g., tone code)
88.27	Separate storage for voice and	93.27	Alphanumeric
00.27	control information	93.28	Modulated audio tone
88.28	Solid state memory storage	93.29	Reconfigurable
90.01	TELEPHONE LINE OR SYSTEM COMBINED	93.31	Protocol
J U • U ±	WITH DIVERSE ELECTRICAL SYSTEM	93.32	Initial setup
	OR SIGNALLING (E.G.,	93.33	Having adjustable speed
	COMPOSITE)	93.34	Having recognition and
91.01	.Credit authorization	JJ.J4	selection
91.02	At switching station	93.35	Having call-waiting
92.01	.Polling	93.36	Line powered
92.02	Televoting	93.37	Having acoustic link
	=		

100.01	.To produce visual-graphic copy (e.g., facsimile)	112.01	.Call traffic recording by
100.02	Having detachable device (e.g.,	112.02	computer or control processorRedundant processor or backup
	detachable storage medium, scanner)	112.03	<pre>processorEstimating blocking probability</pre>
100.03	Usage system	112.03	Estimating blocking probabilityThreshold or limiting control
100.04	Communication charge	112.04	(e.g., gapping control)
100.04	calculation	112.05	Optimization network
100.05	Monitoring	112.03	configuration
100.06	Communication status	112.06	Generalized statistics about
200.00	notification	112.00	telephone network usage
100.07	Using mark sheet	112.07	Carrier usage data
100.08	Electronic mailbox	112.08	Trunk or path usage data
100.09	Relay system	112.09	Specialized exchange
100.11	From a library	112.1	Traffic rate for overload
100.12	Connection to plural networks	114.01	.Call charge metering or
	or lines		monitoring
100.13	Format conversion	114.02	Least cost
100.14	Call signal generation (e.g.,	114.03	Billing computing software or
	auto-dial)		program
100.15	Having switching to other	114.04	Charge error detection
	communication modes	114.05	Special service fees (e.g.,
100.16	Voice mode		customized feature)
100.17	Transmission scheme	114.06	Variable rate
101.01	.Audio program distribution	114.07	Bandwidth
102.01	.Remote control	114.08	Traffic
102.02	Communication device	114.09	Time controlled
102.03	Entertainmemt appliance (e.g.,	114.1	Incentive billing
	TV, VCR, radio, etc.)	114.11	Gaming
102.04	Power source	114.12	Discount or bargaining
102.05	Of heating, ventilation, air	114.13	Advertisement
	conditioner (e.g., HVAC)	114.14	Fraud detection or control
102.06	Of physical entrance or exit	114.15	Calling card
	lock	114.16	Recharging or replenishing an
102.07	Having indication		account or calling card
106.01	.Remote indication over telephone	114.17	Monitoring account or card
106 00	line (e.g., telemetry)		usage balance
106.02	Patient monitoring	114.18	Having complementary item
	Meter reading	111 10	(e.g., novelty)
106.04	Having power supply circuitry	114.19	Credit card
106.05	Having ringing suppression	114.2	Pre-paid calling account or
106.06	Having time window	114 01	card
106.07	Having interrogation signal	114.21	Redirect billing
106.08	Having line status detection	114.22	Split billing or cost sharing
106.09	Ringing suppression	114.23	Third party billing
106.11	Interrogation signal	114.24	1-800 billing
	.Telegraphy	114.25	1-900 billing
108.02 110.01	Over telephone line COMPOSITE SUBSTATION OR TERMINAL	114.26	Based on unique account code
TT0.0T		114.27	Portable number billing
	(E.G., HAVING CALCULATOR, RADIO)	114.28	<pre>Advanced intelligent billing network (e.g., a billing</pre>
111	WITH USAGE MEASUREMENT (E.G.,		service control processor)
	CALL OR TRAFFIC REGISTER)		Service concret processor,

114.29	Using more than one advanced	130	At subscriber station
	intelligent elements (e.g.,	131	Time controlled
	accessing multiple AIN databases)	132	<pre>Paystation (e.g., escrow   control)</pre>
115.01	Interexchange billing operation	133	.Call traffic recording or
115.02	Long distance billing		monitoring
115.03	Interfacing with foreign	134	At central station
	exchange	135	With hardcopy record
116	Hardcopy record generating		generation (e.g., ticket
117	Of station on polystation or		printing)
	party line	136	With display
118	Identification of station	137	Trunk usage (e.g., peg count)
119	Hardcopy record generating	138	All trunks busy metering
	(e.g., ticket printing)	139	Counting the number of
120	With line identification or		completed connections
	class of service determination	140	At subscriber
121.01	At local exchange carrier	141	Mechanical register
	(e.g., central switching	142.01	RECEPTION OF CALLING INFORMATION
	office)		AT SUBSTATION IN WIRELINE
121.02	Discount charge rate or		COMMUNICATIONS SYSTEM
	billing plan	142.02	.Blocking caller ID transmission
121.03	Multiple billing account	142.03	Using a trigger code
121.04	Detail of call history and	142.04	.Extracting call ID from
	rates database		transmitted signal
121.05	Call record modification	142.05	Authentication or authorization
121.06	Having network terminating	142.06	Matching and retrieving stored
	point receiving registration		caller ID information from a
	from subscriber terminal		database
122	With display	142.07	.Routing an incoming call on
123	Paystation (e.g., escrow		multiple lines to a particular
	control)		appliance (e.g., facsimile,
124	Pulse counting or accumulating		computer, or telephone)
	<pre>(e.g., "message metering")</pre>	142.08	.Call waiting associated with
125	Local or zone		caller ID information
126	Assembling billing record	142.09	.Non-assigned telephone number
	(e.g., automatic message		indication
	account (AMA), call detail	142.1	.Caller location indication
	record (CDR), etc.)		(e.g., city, state, etc.)
127.01	Having line identification	142.11	.Caller local time indication
	associated with call billing	142.12	.Including master-slave modules,
	(e.g., automatic number		parent-child terminals, or
107 00	identification (ANI)		controller-adjunct units
127.02	Fraud control or billing	142.13	.Adaptive module coupled to
107 03	restriction		telephone line or telephone
127.03	Billing code or trigger		device
107 04	code	142.14	Format conversion
127.04	Pricing a call made from	142.15	.Connecting to an external
	different account (e.g.,		information processing
107 05	calling card, credit card)	140 16	terminal (e.g., computer)
127.05	Billing option selection	142.16	.Having broadband premise
127.06	Having terminal	140 15	equipment (e.g., TV)
120	identification	142.17	.Having display unit
128	Time of day controlled	142.18	.Including DTMF signal
129	Manually set (e.g., key and	143	WITH CHECK OPERATED CONTROL
	lock)		(E.G., PAYSTATION)

144.01	.Other than coin	167.03	.At booth (e.g., at theater, gas
144.02	Collect calling from payphone		station, etc.)
144.03	Fraud detection in payphone	167.04	Having intercom switch
144.04	Card reader	167.05	.Doorbell system
144.05	Payphone service associated or	167.06	Having access code
	integrated with other	167.07	Having remote controlling
	communication device (e.g.,		station (e.g., gate guard or
	computer, fax, etc.)		attendant)
144.06	Special circuitry for	167.08	Call addressing or announcing
144.00	processing accounting data	167.11	
144.07	_	107.11	Having connection to telephone line
144.07	Information message	167 10	
144 00	notification at paystation	167.12	Having display
144.08	Visual display	167.13	.Having telephone adaptor system
145	.Fraud or interference prevention	167.14	.Two-way voice channel
146	.Coin signalling or control	167.15	.Having transducer circuitry
147	Coin box audit or totalizer	168	.Lockout
148	Denomination	169	Central power source
149	Post-pay coin collection	170	.With paging
150	Coin disposition (i.e., return	171	.Having plural stations with
	or collection)		selective calling (e.g.,
151	Upon connection to called		master)
	station	172	With call addressing
152	Magnet, electromagnet, or	173	.With call addressing
	relay controlled from central	174	.Including body or apparel
	office		supported terminal (e.g.,
153	Paystation (e.g., controlled		headgear)
	by refund key)	175	For underwater use (e.g., in
154	At central office	175	diver's suit)
155	.At terminal station (e.g., coin	176	.With central power source
133	paystation)	177	POLYSTATION LINE SYSTEM (I.E.,
156	MULTI-LINE OR KEY SUBSTATION	1//	
130	SYSTEM WITH SELECTIVE	170	PARTY LINE)
		178	.Revertive call
	SWITCHING AND CENTRAL	179	.Call alerting (e.g., ringing)
1	SWITCHING OFFICE CONNECTION	180	Full selective or tuned (e.g.,
157	.With special service		harmonic)
158	Conferencing	181	Semi-selective (e.g., line
159	.With intercom system		side, polarized)
160	With connection of intercom	182	.Automatic or unattended
	station to subscriber line	183	Station identification
161	.With exclusion or priority	184	Lockout
	feature (e.g., lockout or	185	.Portable or mobile
	privacy)	186	.Central power source
162	.Detail of hold circuitry	187	.Connected to central office
163	Electronic	188	CALL OR TERMINAL ACCESS ALARM OR
164			CHILL ON ILLUMIN HOOLDD HERMAN ON
	.Line status indication or call		CONTROL
	Line status indication or call alerting	189	CONTROL  Fraud or improper use mitigating
165	alerting	189	.Fraud or improper use mitigating
165	alerting .Switching or supervision feature	189	.Fraud or improper use mitigating or indication (e.g., "blue
165	<pre>alerting .Switching or supervision feature   (e.g., common control,</pre>		<pre>.Fraud or improper use mitigating   or indication (e.g., "blue   box", "black box")</pre>
	<pre>alerting .Switching or supervision feature   (e.g., common control,   digital)</pre>	190	<pre>.Fraud or improper use mitigating   or indication (e.g., "blue   box", "black box") .Time out</pre>
165	<pre>alerting .Switching or supervision feature   (e.g., common control,   digital) .Detail of line circuit or line</pre>	190 191	<ul><li>.Fraud or improper use mitigating or indication (e.g., "blue box", "black box")</li><li>.Time out</li><li>.At switching center</li></ul>
166	<pre>alerting .Switching or supervision feature   (e.g., common control,   digital) .Detail of line circuit or line   card</pre>	190	<pre>.Fraud or improper use mitigating   or indication (e.g., "blue   box", "black box") .Time outAt switching centerOf call duration (e.g.,</pre>
	alerting .Switching or supervision feature (e.g., common control, digital) .Detail of line circuit or line card PRIVATE (E.G., HOUSE OR INTERCOM)	190 191 192	<pre>.Fraud or improper use mitigating   or indication (e.g., "blue   box", "black box") .Time outAt switching centerOf call duration (e.g.,   conversation timer)</pre>
166 167.01	alerting .Switching or supervision feature (e.g., common control, digital) .Detail of line circuit or line card PRIVATE (E.G., HOUSE OR INTERCOM) OR SINGLE LINE SYSTEM	190 191 192 193	<pre>.Fraud or improper use mitigating   or indication (e.g., "blue   box", "black box") .Time outAt switching centerOf call duration (e.g.,   conversation timer)Of specific equipment</pre>
166	alerting .Switching or supervision feature (e.g., common control, digital) .Detail of line circuit or line card PRIVATE (E.G., HOUSE OR INTERCOM)	190 191 192 193 194	<pre>.Fraud or improper use mitigating   or indication (e.g., "blue    box", "black box") .Time outAt switching centerOf call duration (e.g.,    conversation timer)Of specific equipment .Lockout or double use signalling</pre>
166 167.01	alerting .Switching or supervision feature (e.g., common control, digital) .Detail of line circuit or line card PRIVATE (E.G., HOUSE OR INTERCOM) OR SINGLE LINE SYSTEM	190 191 192 193	<pre>.Fraud or improper use mitigating   or indication (e.g., "blue   box", "black box") .Time outAt switching centerOf call duration (e.g.,   conversation timer)Of specific equipment</pre>

196	.At switching center	207.13	Party identification or
197	Central office		validation (e.g., personal
198	PBX		identification number (PIN))
199	.At substation	207.14	Dialed number identification
200	Restrictive dialing circuit		service (DNIS)
201.01	SPECIAL SERVICES	207.15	Automatic number identification
201.02	<pre>.Service profile (e.g., calling service)</pre>		or calling number identification (ANI or CLID)
201.03	Creation of service (e.g.,	207.16	Ringing signal (e.g. having a
201.03	using object oriented		predetermined cadence or
	programming, primitive,		distinctive ring)
	function)	208.01	.Priority override (e.g., butt-
201.04	Display arrangement		in)
201.05	Distribution of service (e.g.,	209.01	.Repetitive call attempts (e.g.,
201.03	downloading, uploading)		camp-on-busy, retry)
201.06	.Locating using diverse	210.01	.Reserved call (e.g., return
201.00	technology (e.g., using		call, call back, scheduled
	infrared badge, sensor, card		call, reestablished call)
	reader)	210.02	.Call blocking
201.07	Called party	210.03	Call from anonymous caller
201.07	Calling party	211.01	.Call diversion (e.g., call
201.00	Object		capture)
201.03	Detecting presence or absence	211.02	Call forwarding
201.1	of party or object	211.03	Sequential ringing
201.11	.Anonymous party (e.g.,	211.04	Simultaneous ringing
201.11	protection of called or	211.05	Smart card
	calling party's identity,	212.01	Call transfer
	privacy)	213.01	Intercept (e.g., dead or
201.12	.Provisioning	213.01	changed number)
202.01	.Conferencing	214.01	Secretarial or answering
203.01	Operator control	214.01	service
204.01	Subscriber control	215.01	.Call Waiting
205.01	Conferencing initiation by	216.01	.Abbreviated dialing or direct
203.01	single calling station	210.01	call (e.g., hot line)
206.01	At substation	217.01	.Audible paging
207.01	.Three-way calling	218.01	.Automatic directory service
207.02	.Service trigger (activation or	210.01	(e.g., on-line)
207.02	deactivation)	218.02	.Performed by operator (e.g.,
207.03	,	210.02	butt-in, busy verification)
207.03	expiration of time period,	219	PLURAL EXCHANGE NETWORK OR
	time zone, date)	219	INTERCONNECTION
207.04	came acre, date,		
	Line or loop condition	220.01	
7.07.05	Line or loop condition	220.01	.With interexchange network
207.05	Busy signal (e.g., off hook)		.With interexchange network routing
207.06	Busy signal (e.g., off hook)Transition from off-hook to	221.01	<ul><li>.With interexchange network routing</li><li>Alternate routing</li></ul>
	Busy signal (e.g., off hook)		<ul><li>.With interexchange network routing</li><li>Alternate routing</li><li>Service provider selection</li></ul>
	<pre>Busy signal (e.g., off hook)Transition from off-hook to   on-hook (e.g., busy to idle,   hook flash)</pre>	221.01	<ul><li>.With interexchange network routing</li><li>Alternate routing</li><li>Service provider selection (e.g., local or long distance,</li></ul>
207.06	Busy signal (e.g., off hook)Transition from off-hook to on-hook (e.g., busy to idle, hook flash)Transition from on-hook to	221.01	<ul><li>.With interexchange network routing</li><li>Alternate routing</li><li>Service provider selection</li></ul>
207.06	<ul> <li>Busy signal (e.g., off hook)</li> <li>Transition from off-hook to on-hook (e.g., busy to idle, hook flash)</li> <li>Transition from on-hook to off-hook (e.g., idle to busy)</li> </ul>	221.01	.With interexchange network routingAlternate routingService provider selection (e.g., local or long distance, primary and alternate carriers)
207.06	<ul> <li>Busy signal (e.g., off hook)</li> <li>Transition from off-hook to on-hook (e.g., busy to idle, hook flash)</li> <li>Transition from on-hook to off-hook (e.g., idle to busy)</li> <li>No answer (e.g., ringing</li> </ul>	221.01 221.02	<ul><li>.With interexchange network routing</li><li>.Alternate routing</li><li>Service provider selection (e.g., local or long distance, primary and alternate</li></ul>
207.06	<ul> <li>Busy signal (e.g., off hook)</li> <li>Transition from off-hook to on-hook (e.g., busy to idle, hook flash)</li> <li>Transition from on-hook to off-hook (e.g., idle to busy)</li> </ul>	221.01 221.02	.With interexchange network routingAlternate routingService provider selection (e.g., local or long distance, primary and alternate carriers)Failure (e.g., disaster,
207.06 207.07 207.08	Busy signal (e.g., off hook)Transition from off-hook to on-hook (e.g., busy to idle, hook flash)Transition from on-hook to off-hook (e.g., idle to busy)No answer (e.g., ringing signal, on-hook, idle)Number of rings	221.01 221.02 221.03	.With interexchange network routingAlternate routingService provider selection (e.g., local or long distance, primary and alternate carriers)Failure (e.g., disaster, overload, blockage)
207.06 207.07 207.08 207.09	<ul> <li>Busy signal (e.g., off hook)</li> <li>Transition from off-hook to on-hook (e.g., busy to idle, hook flash)</li> <li>Transition from on-hook to off-hook (e.g., idle to busy)</li> <li>No answer (e.g., ringing signal, on-hook, idle)</li> </ul>	221.01 221.02 221.03	.With interexchange network routingAlternate routingService provider selection   (e.g., local or long distance, primary and alternate carriers)Failure (e.g., disaster, overload, blockage)Restoration (e.g., backup,
207.06 207.07 207.08 207.09	Busy signal (e.g., off hook)Transition from off-hook to on-hook (e.g., busy to idle, hook flash)Transition from on-hook to off-hook (e.g., idle to busy)No answer (e.g., ringing signal, on-hook, idle)Number of ringsExpiration of predetermined	221.01 221.02 221.03 221.04	.With interexchange network routingAlternate routingService provider selection   (e.g., local or long distance, primary and alternate carriers)Failure (e.g., disaster, overload, blockage)Restoration (e.g., backup, recovery)
207.06 207.07 207.08 207.09 207.1	Busy signal (e.g., off hook)Transition from off-hook to on-hook (e.g., busy to idle, hook flash)Transition from on-hook to off-hook (e.g., idle to busy)No answer (e.g., ringing signal, on-hook, idle)Number of ringsExpiration of predetermined time period	221.01 221.02 221.03 221.04 221.05	.With interexchange network routingAlternate routingService provider selection   (e.g., local or long distance, primary and alternate carriers)Failure (e.g., disaster, overload, blockage)Restoration (e.g., backup, recovery)Based upon historical data

enhancement (e.g., capacity or bandwidth)  221.08	004 00		0.54	
bandwidth    252   For alerting signal at called station (e.g., ringing)	221.07	Parameter optimization or	251	.With generating of call
221.08 .Advanced intelligent network (AIN)  221.09Service control point (SCP, ISCP, external database)  221.11Signal transfer point (STP, ISTP)  221.11Adjunct or intelligent peripheral (IP)  221.12Service switching point (SSP)  221.13Local number portability (LNP)  221.14Routing parameter (e.g., area code, address, service provider identifier)  221.15Connection call model (e.g., virtual network, displayed models)  222Toll center  223With operator assistance  224Tandem switching center  225With an automatic exchange  227With an automatic exchange  228Having a manual exchange  229Interexchange signalling to perator  229Interexchange signalling to perator  230Signalling path distinct from trunk (e.g., CCIS)  231Central office of signalling conter  232PEX trunk groups  233Direct inward dialing  234PEX to central office outward dialing  235Vice frequency signalling over trunk  236D.C. signalling over trunk  237Pulse or digital signalling conter trunk  238Bay in a signal ing propeator  240Long-one of agent or customer (e.g., connected to Internet, E-mail, etc.)  255.10Speech of agent or customer (e.g., connected to Internet, E-mail, etc.)  257Routing to available agent  258Average call length  259Speech of agent or customer (e.g., connected to Internet, E-mail, etc.)  250Speech of agent or customer (e.g., connected to Internet, E-mail, etc.)  251Sundling over trunk  252PEX trunk groups  253Vice frequency signalling over trunk  254D.C. signalling repeator  255Speech of agent or customer (e.g., auticipating next available agent)  255Speech of agent or customer (e.g., language spoken by agent)  256D.C. signalling over trunk  266 .01Speech of agent or customer (e.g., language spoken by agent)  257Speech of agent or customer (e.g., language spoken by agent)  258Speech of agent or customer (e.g., language spoken by agent)  259Speech of agent or customer (e.g., la				
(AIN)		•	252	9 9
221.10  Service control point (SCP, ISCP, external database)   255	221.08	Advanced intelligent network		station (e.g., ringing)
TSCP, external database)   255  with interrupter   187P)   221.11  Signal transfer point (STP, 187P)   221.12  Service switching point (SSP)   255.11  Service switching point (SSP)   221.12  Service switching point (SSP)   225.114  Searvice switching point (SSP)   225.115  Coal number portability (LNP)   225.116  Coal number portability (LNP)   225.117  Coan muchor portability (LNP)   225.118  Coan muchor portability (LNP)   225.119  Coan muchor portability (LNP)   225.119  Coan muchor identifier)   226.119  Coan muchor identifier)   227.119  Coan muchor identifier)   228.119  Coan muchor identifier)   229.119  Coan muchor identifier)   229.119  Coan muchor identifier)   225.119  Coan muchor identifier)   226.119  Coan muchor identifier)   226.119  Coan muchor identifier)   227.119  Coan muchor identifier)   228.119  Coan muchor identifier)   228.119  Coan muchor identifier)   229.119  Coan muchor identifier   229.119  Coan muchor identifier)   229.119  Coan muchor identifier   229  Coan muchor identifier   2		(AIN)	253	Electronic
221.11Adjunct or intelligent peripheral (IP) 221.12Service switching point (SSP) 221.13Local number portability (INP) 221.14Outing parameter (e.g., area code, address, service provider identifier) 221.15Connection call model (e.g., virtual network, displayed models) 222Outing the models (e.g., virtual network, displayed models) 223With operator assistance 224With operator assistance 225With an automatic exchange 226Waying signalling to operator trunk (e.g., cossistance) 227Waying signalling to operator trunk (e.g., cossistance) 228PEX to central office-to-PEX signalling (e.g., direct outward dialing) 230PEX trunk groups 231Direct inward dialing exignalling (e.g., direct outward dialing) 232Direct inward dialing exignalling coutward dialing over trunk 237Pulse or digital signalling exignalling exi	221.09	Service control point (SCP,	254	Associated with connector
TSTP		ISCP, external database)	255	With interrupter
221.11Adjunct or intelligent peripheral (TP) 221.12Service switching point (SSP) 221.13Local number portability (INP) 221.14 .Routing parameter (e.g., area code, address, service provider identifier)  221.15Connection call model (e.g., wirtual network, displayed models)  222Toll center  223With operator assistance 224 .Tandam switching center 225 .Multi-PBX interconnection 226Having a manual exchange 227With an automatic exchange 228Having signalling to operator 229 .Interexchange signalling 230Signalling path distinct from trunk (e.g., CCIS) 231Central office-to-PBX signalling 232PBX trunk groups 233Direct inward dialing 234PBX to central office signalling (e.g., direct outward dialing) 235Voice frequency signalling repeater 236D.C. signalling over trunk 237Pulse or digital signalling 238Having signalling repeater 239Using register-sender 240Interexchange trunk circuit 241Glare or simultaneous seizure mitigation 242 CENTALIZED SWITCHING SYSTEM 243Glare or simultaneous seizure mitigation 244In common control system 245Glare or trunk 246Of line or trunk 247With display 248Using matrix 249Using matrix 249For nuisance call mitigation  251Call distribution to operator 265.02Automatic call distribution (ACD) system (ACD) subtation of agent yerformance (ACD)Spech of agent or customer (e.g., alication of agent's performance (ACD)Average call length (ACD)Average call length (ACD)Average call length (ACD)Based on agent's skill (e.g., language spoken by agent) .	221.1	Signal transfer point (STP,	256	Having automatic or through
221.11Adjunct or intelligent peripheral (TP) 221.12Service switching point (SSP) 221.13Local number portability (INP) 221.14 .Routing parameter (e.g., area code, address, service provider identifier)  221.15Connection call model (e.g., wirtual network, displayed models)  222Toll center  223With operator assistance 224 .Tandam switching center 225 .Multi-PBX interconnection 226Having a manual exchange 227With an automatic exchange 228Having signalling to operator 229 .Interexchange signalling 230Signalling path distinct from trunk (e.g., CCIS) 231Central office-to-PBX signalling 232PBX trunk groups 233Direct inward dialing 234PBX to central office signalling (e.g., direct outward dialing) 235Voice frequency signalling repeater 236D.C. signalling over trunk 237Pulse or digital signalling 238Having signalling repeater 239Using register-sender 240Interexchange trunk circuit 241Glare or simultaneous seizure mitigation 242 CENTALIZED SWITCHING SYSTEM 243Glare or simultaneous seizure mitigation 244In common control system 245Glare or trunk 246Of line or trunk 247With display 248Using matrix 249Using matrix 249For nuisance call mitigation  251Call distribution to operator 265.02Automatic call distribution (ACD) system (ACD) subtation of agent yerformance (ACD)Spech of agent or customer (e.g., alication of agent's performance (ACD)Average call length (ACD)Average call length (ACD)Average call length (ACD)Based on agent's skill (e.g., language spoken by agent) .		ISTP)		ringing
peripheral (IP)   25.01  call distribution to operator  call distribution  call distribution to operator  call distribution	221.11	Adjunct or intelligent	257	For calling station (e.g.,
221.12Service switching point (SSP) 221.13Local number portability (INP) 221.14 .Routing parameter (e.g., area code, address, service provider identifier) 221.15 .Connection call model (e.g., virtual network, displayed models) 22Toll center 23With operator assistance 24Tandem switching center 25Multi-PBX interconnection 26Having signalling to operator 27With an automatic exchange 28Having signalling to operator trunk (e.g., CCIS) 29Central office-to-PBX signalling 20PBX trunk groups 21Direct inward dialing 23Direct inward dialing 24PBX trunk groups 25Do. signalling over trunk 26D. c. signalling over trunk 27Pulse or digital signalling repeater mitigation 28Laving signalling repeater mitigation 29Lore or digital signalling repeater mitigation 20Log-on or log-off of agent 265.03Reporting status (e.g., assignment (e.g., allocation of agent's time to a specific task) 265.04Log-on or log-off of agent 265.05Agent assignment (e.g., allocation of agent's time to a specific task) 265.06Agent assignment (e.g., allocation of agent's time to a specific task) 265.07Spech of agent or customer (e.g., quality of agent's performance) 265.08Average call length 265.09Maving a multimedia feature (e.g., quality of agent's performance) 265.00Agent assignment (e.g., allocation of agent's time to a specific task) 265.01Dog-on or log-off of agent 265.02Agent assignment (e.g., allocation of agent's time to a specific task) 265.03Maving allocation of agent's time to a specific task) 265.05Maving allocation of agent's time to a specific task) 265.07Speech of agent or customer (e.g., call time) 265.09Pax touting agent performance 265.09Pax touting agent performance 266.00Pax touting agent performance 266.01Call call distinct from a specific task)		peripheral (IP)		
221.13Local number portability (LNF) 221.14 .Routing parameter (e.g., area code, address, service provider identifier)  221.15 .Connection call model (e.g., virtual network, displayed models)  222Voil center  223With operator assistance 224Tandem switching center 225Wulti-PRX interconnection 226Having a manual exchange 227With an automatic exchange 228Having signalling to operator trunk (e.g., CCIS) 230Signalling path distinct from trunk (e.g., CCIS) 231Central office-to-PBX signalling 232PEX trunk groups 233Direct inward dialing 234PEX to central office signalling (e.g., direct outward dialing) 235Voice frequency signalling over trunk 236D.C. signalling over trunk 237Voice frequency signalling repeater mitigation 238Having signalling repeater mitigation 239Using register-sender 240Interexchange trunk circuit mitigation 241Glare or simultaneous seizure mitigation 242 CENTRALIZED SWITCHING SYSTEM 243With display 244To common control system 245With display 246Using matrix 247With display 248Using matrix 248Using matrix 249For nuisance call mitigation 249For nuisance call mitigation 240For nuisance call mitigation 245Log-nor trage defice, supervisory reporting status (e.g., supervisory reporting status (e.g., supervisory reporting status (e.g., supervisory reporting status (e.g., supervisory reporting subtrest application in degent subtrest (e.g., dagent or subtrest (e.g., dagent or customer (e.g., talk time) 265.07Speech of agent or customer (e.g., talk time) 265.08Average call length 265.09Based on type of call 265.01B	221.12	Service switching point (SSP)	265.01	
221.14   Routing parameter (e.g., area code, address, service provider identifier)   Service provider identifier)   Service identification   Service identifier)   Service identification   Service ident	221.13	Local number portability (LNP)		
code, address, service provider identifier)  221.15	221.14			
provider identifier)  221.15			265 03	
221.15 Connection call model (e.g., virtual network, displayed models)  222 .Toll center  223 .With operator assistance 224 .Tandem switching center 225 .Multi-PBX interconnection 226 .Having a manual exchange 227 .With an automatic exchange 228Having signalling to operator 229 .Interexchange signalling 230Signalling path distinct from trunk (e.g., CCIS) 231 .Central office-to-PBX signalling 232PBX trunk groups 233Direct inward dialing 234PBX to central office signalling (e.g., direct outward dialing) 235Voice frequency signalling ver trunk 236D.C. signalling over trunk 237Pulse or digital signalling 238Having signalling repeater trunk 239Using register-sender 240Lare or simultaneous seizure mitigation 241Glare or simultaneous seizure mitigation 242 CENTRALIZED SWITCHING SYSTEM conformance (e.g., dail) catelon balancing) 243 In common control system 244 In common control system 245 Gline or trunk 246 Ilone or trunk 247 With display 248 Using matrix 249 For nuisance call mitigation 252 For nuisance call mitigation 265 .05 Agent assignment (e.g., Agent assignment (e.g., dapent's time to a specific task) 265 .05 Agent assignment (e.g., depact's time to a specific task) 265 .05 Monitoring agent performance (e.g., cuality of agent's performance) 265 .07 Speech of agent or customer (e.g., talk time) 265 .08 Average call length 265 .07 Average call length 265 .08 Average call length 265 .09 Having a multimedia feature (e.g., connected to Internet, E-mail, etc.) 265 .09 Having a multimedia feature (e.g., connected to Internet, E-mail, etc.) 265 .01 Predictive (e.g., anticipating next available agent) 265 .11 Predictive (e.g., anticipating next available agent) 265 .12 Based on type of call 266 .01 Based on time (e.g., longest waiting agent) 266 .02 Based on time (e.g., age of queued call, time of day, date) 266 .03 Based on time (e.g., pueue-to-queue, ACD-to-ACD) 266 .05 Split 266 .06			203.03	
virtual network, displayed models)  222 .Toll center	221.15		265 04	
models)  222 .Toll center  223 .With operator assistance 224 .Tandem switching center 225 .Multi-PEX interconnection 226 .Having a manual exchange 227 .With an automatic exchange 228Having signalling to operator 230Signalling path distinct from trunk (e.g., CCIS) 231 .Central office-to-PEX signalling 232PEX trunk groups 233Direct inward dialing 234PEX to central office signalling (e.g., direct outward dialing) 235Voice frequency signalling over trunk 236D.C. signalling over trunk 237Pulse or digital signalling 238Having signalling repeater mitigation 240Interexchange trunk circuit 241Glare or simultaneous seizure mitigation 242Toll central of system 244To common control system 245Glass of service determination or transmission 246Of line or trunk 247With display 248Using matrix 249For nuisance call mitigation 250Wind fine or trunk 266.09Howitoring agent performance (e.g., quality of agent's performance) 265.07Monitoring agent performance (e.g., quality of agent's performance) 265.07Speech of agent or customer (e.g., talk time) 265.08Average call length 265.09Having a multimedia feature (e.g., connected to Internet, E-mail, etc.) 265.10Predictive (e.g., anticipating next available agent) 265.11Routing to available agent) 265.12Based on type of call 265.13Based on type of call 266.01Based on time (e.g., longest waiting agent) 266.02Based on time (e.g., age of queued call, time of day, date) 266.03Split 266.04Split 266.05Split 266.06Estimating or reporting waiting time 266.07Call campaign (e.g., script, application, inbound/outbound balancing) 266.09Home agent 266.09Home agent 266.09Home agent 266.09Home agent 266.09Home agent 266.09Home agent				
222 Toll center 223 With operator assistance 224 Tandem switching center 225 Multi-PBX interconnection 226 Maving a manual exchange 227 With an automatic exchange 228 Having signalling to operator 229 Toll central office-to-PBX 230 Signalling path distinct from trunk (e.g., CCIS) 231 Central office-to-PBX 232 PBX trunk groups 233 Direct inward dialing 234 PBX to central office 235 signalling (e.g., direct outward dialing) 236 PEX to central office 237 Voice frequency signalling over trunk 238 Having signalling over trunk 239 Location of signalling over trunk 230 Signalling over trunk 231 Pulse or digital signalling 232 Pulse or digital signalling 233 Location of signalling repeater 234 Pulse or of signalling repeater 235 Contral office 236 Location of signalling over trunk 237 Pulse or digital signalling 238 Having signalling repeater 239 Using register-sender 240 Therexchange trunk circuit 241 Glare or simultaneous seizure mitigation 242 CENTRALIZED SWITCHING SYSTEM 243 Class of service determination or transmission 244 In common control system 245 Glare or trunk 246 of line or trunk 247 With display 248 Using matrix 249 For nuisance call mitigation			203.03	
223With operator assistance 224Tandem switching center 225Multi-PEX interconnection 226Having a manual exchange 227With an automatic exchange 228Having signalling to operator 229Early of agent or customer 230Signalling path distinct from 231Central office-to-PEX 232PEX trunk groups 233Direct inward dialing 234PEX to central office 235 signalling (e.g., direct 236D.C. signalling over 237Voice frequency signalling 238Having signalling over 240Loud from trunk 237Pulse or digital signalling 238Having signalling repeater 239Using register-sender 240Interexchange trunk circuit 241Glare or simultaneous seizure 242 centralized SWITCHING SYSTEM 243Class of service determination 244In common control system 245Glare or trunk 246Of line or trunk 247With display 248Using matrix 249For nuisance call mitigation 250Multi-PEX interconnection 265.09Maving a multimedia feature (e.g., quality of agent's performance (e.g., quality of agent's performance (e.g., quality of agent or customer (e.g., talk time)  265.09Average call lengthAverage call leng	222	•		
224 .Tandem switching center 225 .Multi-PBX interconnection 226 .Having a manual exchange 227 .With an automatic exchange 228Having signalling to operator 229 .Interexchange signalling 230 .Signalling path distinct from trunk (e.g., CCIS) 231 .Central office-to-PBX signalling 232PBX trunk groups 233Direct inward dialing 234PBX to central office signalling (e.g., direct outward dialing) 235Voice frequency signalling over trunk 236 .D.C. signalling over trunk 237Pulse or digital signalling 238Having signalling repeater 239Using register-sender 240Interexchange trunk circuitGlare or simultaneous seizure mitigation 241Glare or simultaneous seizure mitigation 242 CENTRALIZED SWITCHING SYSTEM 243Glare for trunk 244In common control system 245Glaring matrix 246For nuisance call mitigation 247With display 248Using matrix 248For nuisance call mitigation 248For nuisance call mitigation 249For nuisance call mitigation 240For nuisance call mitigation 241Glare or simultaneous seizure mitigation 242For nuisance call mitigation 243For nuisance call mitigation 244For nuisance call mitigation 245Glare or simultaneous seizure mitigation 246For nuisance call mitigation 247With display 248Using matrix 248For nuisance call mitigation 249For nuisance call mitigation 249For nuisance call mitigation 240For nuisance call mitigation 241Glare or simultaneous seizure mitigation 242For nuisance call mitigation 243For nuisance call mitigation 244For nuisance call mitigation			265 06	_
225 Multi-PBX interconnection 226 Having a manual exchange 227 .With an automatic exchange 228Having signalling to operator 229Interexchange signalling 230Signalling path distinct from trunk (e.g., CCIS) 231Central office-to-PBX signalling 232PBX trunk groups 233Direct inward dialing 234PBX to central office signalling (e.g., direct outward dialing) 235Voice frequency signalling over trunk 236Paylse or digital signalling 237Pulse or digital signalling 238Having signalling repeater 239Using register-sender 240Interexchange trunk circuit entity attick 241Glare or simultaneous seizure mitigation 242Centralification 244In common control system 245Identification 246Of line or trunk 247With display 248Using matrix 249For nuisance call mitigation 249For nuisance call mitigation 245For nuisance call mitigation 246For nuisance call mitigation 247With display 248Tsing a multimedia feature (e.g., Apent of untimedia feature (e.g., connected to Internet, E-mail, etc.) 246Predictive (e.g., anticipating next available agent) 247Based on agent 's skill (e.g., language spoken by agent) 248Clain agent (e.g., cornected to Internet, E-mail, etc.) 249Predictive (e.g., anticipating next available agent) 245Based on agent 's skill (e.g., language spoken by agent) 246Call or agent queuing 247Based on time (e.g., longest waiting agent) 248Clain agent (e.g., cornected to Internet, E-mail, etc.) 249Predictive (e.g., anticipating next available agent) 245Based on time (e.g., document) 246Call campaign (e.g., script, application, inbound/outbound balancing) 248Glare or trunk 249For nuisance c			203.00	
226		<u> </u>		
227With an automatic exchange 228Having signalling to operator 229Interexchange signalling 230Signalling path distinct from trunk (e.g., CCIS) 231Central office-to-PBX signalling 232PBX trunk groups 233Direct inward dialing 234PBX to central office signalling (e.g., direct outward dialing) 235Voice frequency signalling over trunk 236D.C. signalling over trunk 237Pulse or digital signalling 238Having signalling repeater 239Using register-sender 240Interexchange trunk circuit mitigation 241Glare or simultaneous seizure mitigation 242 CENTRALIZED SWITCHING SYSTEM 243Land or trunk 244In common control system 245Land operator 246With display 247With display 248Using matrix 249For nuisance call mitigation 245For nuisance call mitigation 246For nuisance call mitigation 247With display 248For nuisance call mitigation 248Land time (e.g., talk time) 246Having a multimedia feature 246Having a multimedia feature (e.g., connected to Internet, E-mail, etc.) Having a multimedia feature (e.g., connected to Internet, E-mail, etc.) Having a multimedia feature (e.g., connected to Internet, E-mail, etc.) Having a multimedia feature (e.g., connected to Internet, E-mail, etc.) Having a multimedia feature (e.g., connected to Internet, E-mail, etc.) Having a multimedia feature (e.g., connected to Internet, E-mail, etc.) Having a multimedia feature (e.g., connected to Internet, E-mail, etc.) Having a multimedia feature (e.g., connected to Internet, E-mail, etc.) Based on type of call Based on time (e.g., age of queue (all, time of day, date) Call or agent queuie  (e.g., connected to Internet, E-mail, etc.) Based on time (e.g., agent) Based on time (e.g., agent)			265 07	
228Having signalling to operator 229 .Interexchange signalling 230Signalling path distinct from trunk (e.g., CCIS) 231Central office-to-PBX signalling 232PBX trunk groups 233Direct inward dialing 234PBX to central office 235 signalling (e.g., direct outward dialing) 236D.C. signalling over trunk 237Pulse or digital signalling 238Having signalling repeater 239Using register-sender 240Interexchange trunk circuit 241Glare or simultaneous seizure mitigation 242 CENTRALIZED SWITCHING SYSTEM 243Glass of service determination or transmission 244In common control system 245Glane or trunk 246Of line or trunk 247With display 248Using matrix 249For nuisance call mitigation 250Saying atrix 265.10Having a multimedia feature (e.g., connected to Internet, E-mail, etc.) 265.11Predictive (e.g., anticipating next available agent) 265.12Based on agent's skill (e.g., language spoken by agent) 265.13Based on type of call 265.14Based on time (e.g., longest waiting agent) 266.01Call or agent queuing 266.02Based on time (e.g., age of queued call, time of day, date) 266.03Based on time (e.g., age of queued call, time of day, date) 266.04Overflow (e.g., queue-to-queue, ACD-to-ACD) 266.05Split 266.06Estimating or reporting waiting time 266.07Call campaign (e.g., script, application, inbound/outbound balancing) 266.08Predictive algorithm 266.09Home agent 266.01Call record			265.07	
229 .Interexchange signalling 265.09Having a multimedia feature (230Signalling path distinct from trunk (e.g., CCIS)Parall, etc.)  231Central office-to-PEX signalling next available agent)  232PEX trunk groupsDirect inward dialing next available agent (e.g., anticipating next available agent)  233Direct inward dialing 265.12Based on agent's skill (e.g., language spoken by agent)  234PEX to central office signalling (e.g., direct outward dialing) 265.14Based on type of call outward dialing) 265.14Based on time (e.g., longest waiting agent)  235Voice frequency signalling over trunk 266.01Based on type of call or agent queuing 266.01Based on type of call or agent queuing 266.01Based on type of call or agent queuing 266.02Based on type of call or agent queuing 266.03Based on type of call or agent queuing 266.03Based on type of call or agent queuing 266.05Based on type of call 266.05Based on type of call 266.06Based on type of call 266.06Based on type of call 266.07Overflow (e.g., queue-to-queue, ACD-to-ACD) waiting time or transmission 266.07Split 266.06Based on type of call 266.07Split 266.07Split 266.07Split 266.08Split 266.09Split 266.09Based on type of call 266.09Predictive algorithm 266.09Predictive algorithm 266.09Predictive algorithm 266.07Pro nuisance call mitigationCall record			065.00	
230Signalling path distinct from trunk (e.g., CCIS)  231Central office-to-PBX signalling  232PBX trunk groups  233Direct inward dialing  234PBX to central office signalling (e.g., direct outward dialing)  235Voice frequency signalling over trunk  236D.C. signalling over trunk  237Pulse or digital signalling  238Having signalling repeater  239Using register-sender  240Interexchange trunk circuit  241Glare or simultaneous seizure mitigation  242 CENTRALIZED SWITCHING SYSTEM  243Glass of service determination or transmission  244In common control system  245Gentral office-to-PBX  246Of line or trunk  247With display  248Using matrix  249For nuisance call mitigation  245Gentral office-to-PBX  246Gentral office-to-PBX  247With display  248Using matrix  249For nuisance call mitigation  246For nuisance call mitigation  247With display  248For nuisance call mitigation  248For nuisance call mitigation  246For nuisance call mitigation  247For nuisance call mitigation  248For nuisance call mitigation				
trunk (e.g., CCIS)  231 .Central office-to-PBX signalling  332PBX trunk groups  233Direct inward dialing  234PBX to central office signalling (e.g., direct outward dialing)  235Voice frequency signalling over trunk  236D.C. signalling over trunk  237Pulse or digital signalling  238Having signalling repeater  239Using register-sender  240Interexchange trunk circuit  241Glare or simultaneous seizure mitigation  242 CENTRALIZED SWITCHING SYSTEM  244In common control system or transmission  245With display  246With display  247With display  248Using matrix  249For nuisance call mitigation  245For nuisance call mitigation  246For nuisance call mitigation  247With display  248For nuisance call mitigation			265.09	5
231Central office-to-PBX signalling 232PBX trunk groups 233Direct inward dialing 234PBX to central office 235Direct inward dialing 236PBX to central office 237PBX to central office 238Using requency signalling over trunk 239Using register-sender 240Interexchange trunk circuit 241Clare or simultaneous seizure 242 CENTRALIZED SWITCHING SYSTEM 243Class of service determination 244In common control system 245Dash display 246Using matrix 246Using matrix 247With display 248Using matrix 248Using matrix 249For nuisance call mitigation 255 .11Routing to available agent 265 .12Based on agent yealth (e.g., language spoken by agent) 265 .13Based on type of call 265 .14Based on time (e.g., longest waiting agent) 266 .01Call or agent queuing 266 .02Based on time (e.g., age of queued call, time of day, 266 .03Based on time (e.g., age of queued call, time of day, 266 .03Derflow (e.g., queue-to-queue, ACD-to-ACD) 266 .05Split 266 .06Estimating or reporting 266 .07Call campaign (e.g., script, application, inbound/outbound balancing) 266 .08Predictive algorithm 266 .09Home agent 266Home agent 266Estimating or splication, inbound/outbound 267With display 268How the display agent 269The display agent 269The display agent 266Dermanded on time (e.g., agent) 266Based on time (e.g., language spoken by agent) 266 .01Based on time (e.g., language spoken by agent) 266 .02Based on time (e.g., agent) 266 .03Based on time (e.g., agent) 266 .03Based on time (e.g., agent) 266 .05Based on time (e.g., agent) 266 .00Based	230			
signalling next available agent)  232PBX trunk groups 265.11Routing to available agent  233Direct inward dialing 265.12Based on agent's skill (e.g.,  234PBX to central office language spoken by agent)  235Voice frequency signalling over trunk 265.14Based on type of call  236D.C. signalling over trunk 266.01Call or agent queuing  237Pulse or digital signalling 266.02Based on type of call  238Having signalling repeater 299Using register-sender 240Tinterexchange trunk circuit 266.04Overflow (e.g., queue-to-queue, ACD-to-ACD)  241Glare or simultaneous seizure mitigation 266.05Split  242 CENTRALIZED SWITCHING SYSTEM 266.06Estimating or reporting waiting time  266.07Call campaign (e.g., script, application, inbound/outbound balancing)  244In common control system 266.08Predictive algorithm  245Using matrix 266.1Call record  246Using matrix 266.1Call record				
232PBX trunk groups 265.11Routing to available agent 233Direct inward dialing 265.12Based on agent's skill (e.g., 234PBX to central office signalling (e.g., direct outward dialing) 265.13Based on type of call outward dialing) 265.14Based on type of call 235Voice frequency signalling over trunk 266.01Call or agent queuing 236D.C. signalling over trunk 266.02Based on type of call 237Pulse or digital signalling 266.03Based on type of call 238Having signalling repeater date) 240Interexchange trunk circuit 266.04Overflow (e.g., queue-to-queue, ACD-to-ACD) 241Glare or simultaneous seizure mitigation 266.05Split 242 CENTRALIZED SWITCHING SYSTEM 266.06Estimating or reporting waiting time or transmission 266.07Call campaign (e.g., script, application, inbound/outbound balancing) 246With display 266.09Predictive algorithm 247With display 266.09Home agent 266.1Call record	231		265.1	
233Direct inward dialing 265.12Based on agent's skill (e.g., 234PBX to central office signalling (e.g., direct outward dialing) 265.13Based on type of call 265.14Based on type of call 266.01Call or agent queuing 266.02Based on type of call 266.02Based on type of call 266.03Based on type of call 266.03Based on type of call 266.03Based on time (e.g., age of queued call, time of day, date) 266.04Overflow (e.g., queue-to-queue, ACD-to-ACD) 266.05Split 266.05Split 266.05Split 266.06Estimating or reporting 266.07Call campaign (e.g., script, application, inbound/outbound balancing) 266.07Overflow application, inbound/outbound balancing) 266.08Predictive algorithm 266.09Home agent 266.10Call record 266.11Call record 266.12Call record 266.12Ca		signalling		_
234PEX to central office     signalling (e.g., direct     outward dialing) 235Voice frequency signalling over     trunk 236D.C. signalling over trunk 237Pulse or digital signalling 238Having signalling repeater 239Using register-sender 240Interexchange trunk circuit 241Glare or simultaneous seizure     mitigation 242 CENTRALIZED SWITCHING SYSTEM 243 .Class of service determination     or transmission 244In common control system 245In common control system 246Of line or trunk 247With display 248Using matrix 249For nuisance call mitigation 265.14Based on type of call 266.01Call or agent queuing 266.02Based on type of call 266.03Based on type of call 266.03Based on type of call 266.04Based on type of call 266.05Based on type of call 266.05Based on type of call 266.06Based on type of call 266.07Based on type of call 266.08Based on type of call 266.08Based on time (e.g., age of queued call, time of day, 266.08Based on time (e.g., age of queued call, time of day, 266.09Based on time (e.g., longest waiting agent) 266.00Based on time (e.g., age of queued call, time of day, 266.00Based on type of call 266.01Call call campaid (e.g., age of queued call, time of day, 266.05Split 266.06Split 266.07Call campaign (e.g., script, 266.08Predictive algorithm 266.09Home agent 266.09Home agent 266.01Call record				
signalling (e.g., direct outward dialing)  265.14Based on type of call 265.14Based on time (e.g., longest waiting agent)  105.14Based on time (e.g., longest waiting agent)  106.01Call or agent queuing  107.02Based on type of callBased on type of callBasedBased on type of callBasedBased on type of callBasedBased on type of callBasedBased on type of callBased	233	Direct inward dialing	265.12	
outward dialing)  265.14Based on time (e.g., longest waiting agent)  trunk  266.01Call or agent queuing  266.02Based on type of call  270Based on type of call  281Based on type of call  282Based on type of call  283Based on type of call  284Based on time (e.g., age of queued call, time of day, date)  285Based on type of call  286 .03Based on time (e.g., age of queued call, time of day, date)  286 .03Based on time (e.g., age of queued call, time of day, date)  285Based on type of call  286 .03Based on time (e.g., longest  Waiting agent)  286 .03Based on type of call  296 .03Based on time (e.g., age of  queue dall, time of day,  date)  296 .04Overflow (e.g., coretion)  296 .05Split  296 .06 .07Call campaign (e.g., script,  application, inbound/outbound  balancing)  296 .09Based on type of call  296 .00Based on time (e.g., age of  queue dall, time of day,  date)  296 .00Call campaign (e.g., script,  application, inbound/outbound  balancing)  296 .00Based on time (e.g., age of  queue dall, time	234	PBX to central office		language spoken by agent)
235Voice frequency signalling over trunk 266.01Call or agent queuing 236D.C. signalling over trunk 266.02Based on type of call 237Pulse or digital signalling 266.03Based on time (e.g., age of queued call, time of day, date) 240Using register-sender 240Glare or simultaneous seizure mitigation 266.05Split 242 CENTRALIZED SWITCHING SYSTEM 266.06Estimating or reporting 243In common control system 266.07Call campaign (e.g., script, application, inbound/outbound balancing) 246With display 266.09Home agent 247With display 266.10Call record 266.1Call record 266.1Call record		signalling (e.g., direct	265.13	Based on type of call
trunk 266.01Call or agent queuing 266.02Based on type of call 277Pulse or digital signalling 266.03Based on time (e.g., age of 278Using register-sender 279Using register-sender 280Glare or simultaneous seizure 280 mitigation 266.05Split 280Split 280Call campaign (e.g., script, 280In common control system 280Call campaign (e.g., script, 280In common control system 280Predictive algorithm 280Predictive algorithm 280Predictive algorithm 280Call record 280For nuisance call mitigation 266.1Call record 280Call record 280Call record 280Call record 280For nuisance call mitigation 280Call record 280		outward dialing)	265.14	Based on time (e.g., longest
236D.C. signalling over trunk 237Pulse or digital signalling 238Having signalling repeater 239Using register-sender 240Interexchange trunk circuit 241Glare or simultaneous seizure 242 CENTRALIZED SWITCHING SYSTEM 243 .Class of service determination 244In common control system 245In common control system 246Of line or trunk 247With display 248Using matrix 249For nuisance call mitigation  266.02Based on type of call 266.03Based on type of call	235	Voice frequency signalling over		waiting agent)
237Pulse or digital signalling 266.03Based on time (e.g., age of 238Having signalling repeater 239Using register-sender 240Interexchange trunk circuit 266.04Overflow (e.g., queue-to-queue, ACD-to-ACD) 241Glare or simultaneous seizure mitigation 266.05Split 266.05Split 266.06Estimating or reporting 266.07Estimating or reporting 266.07Call campaign (e.g., script, application, inbound/outbound 266.07Predictive algorithm 266.09Predictive algorithm 266.09Home agent 266.1Call record 266.1		trunk	266.01	Call or agent queuing
238Having signalling repeater 239Using register-sender 240Interexchange trunk circuit 241Glare or simultaneous seizure 242 centralized switching system 243 .Class of service determination 244In common control system 245In common control system 246Of line or trunk 247With display 248Using matrix 249For nuisance call mitigation  queued call, time of day, date)Overflow (e.g., queue-to-queue, ACD-to-ACD) 266.04Overflow (e.g., queue-to-queue, ACD-to-ACD) 266.05Split 266.06Estimating or reporting waiting time vaiting time 266.07Call campaign (e.g., script, application, inbound/outbound balancing) 266.08Predictive algorithm 266.09Home agent 266.1Call record	236	D.C. signalling over trunk	266.02	Based on type of call
239Using register-sender 240Interexchange trunk circuit 241Glare or simultaneous seizure     mitigation 242 CENTRALIZED SWITCHING SYSTEM 243 .Class of service determination     or transmission 244In common control system 245 .Identification 246Of line or trunk 247With display 248Using matrix 249For nuisance call mitigation 266.04Overflow (e.g., queue-to-queue, ACD-to-ACD) 266.05Split 266.06Estimating or reporting waiting time waiting time vaiting time va	237	Pulse or digital signalling	266.03	Based on time (e.g., age of
240Interexchange trunk circuit 241Glare or simultaneous seizure     mitigation 242 CENTRALIZED SWITCHING SYSTEM 243 .Class of service determination     or transmission 244In common control system 245In common control system 246Of line or trunk 247With display 248With display 249For nuisance call mitigation 266.04Overflow (e.g., queue-to-queue, ACD-to-ACD) 266.05Split 266.06Estimating or reporting waiting time 266.07Call campaign (e.g., script, application, inbound/outbound balancing) 266.08Predictive algorithm 266.09Home agent 266.1Call record	238	Having signalling repeater		queued call, time of day,
240Interexchange trunk circuit 266.04Overflow (e.g., queue-to-queue, ACD-to-ACD)  241Glare or simultaneous seizure mitigation 266.05Split  242 CENTRALIZED SWITCHING SYSTEM 266.06Estimating or reporting waiting time or transmission 266.07Call campaign (e.g., script, application, inbound/outbound balancing)  244In common control system application, inbound/outbound balancing)  245Gline or trunk 266.08Predictive algorithm  247With display 266.09Home agent  248Using matrix 266.1Call record	239	Using register-sender		date)
241Glare or simultaneous seizure mitigation 266.05Split  242 CENTRALIZED SWITCHING SYSTEM 266.06Estimating or reporting 243 .Class of service determination or transmission 266.07Call campaign (e.g., script, 244In common control system application, inbound/outbound 245 .Identification 266.08Predictive algorithm 246With display 266.09Home agent 248Using matrix 266.1Call record			266.04	Overflow (e.g., queue-to-
mitigation 266.05Split  242 CENTRALIZED SWITCHING SYSTEM 266.06Estimating or reporting  243 .Class of service determination or transmission 266.07Call campaign (e.g., script, application, inbound/outbound balancing)  244In common control system application, inbound/outbound balancing)  245 .Identification 266.08Predictive algorithm  247With display 266.09Home agent  248Using matrix 266.1Call record				
242 CENTRALIZED SWITCHING SYSTEM 243 .Class of service determination or transmission 244In common control system 245 .Identification 246Of line or trunk 247With display 248Using matrix 249For nuisance call mitigation 266.06Estimating or reporting waiting time 266.07Call campaign (e.g., script, application, inbound/outbound balancing) 266.08Predictive algorithm 266.09Home agent 266.1Call record			266.05	Split
243 .Class of service determination or transmission 266.07Call campaign (e.g., script, application, inbound/outbound balancing) 244In common control system application, inbound/outbound balancing) 245 .Identification 266.08Predictive algorithm 246With display 266.09Home agent 248Using matrix 266.1Call record	2.4.2			Estimating or reporting
or transmission 266.07Call campaign (e.g., script, application, inbound/outbound balancing)  246Of line or trunk 266.08Predictive algorithm 247With display 266.09Home agent 248Using matrix 266.1Call record 266.1Call record				
244In common control system application, inbound/outbound balancing) 245Of line or trunk 266.08Predictive algorithm 247With display 266.09Home agent 248Using matrix 266.1Call record 249For nuisance call mitigation	243		266.07	
245 .Identification balancing) 246Of line or trunk 266.08Predictive algorithm 247With display 266.09Home agent 248Using matrix 266.1Call record 249For nuisance call mitigation	211		, ,	
246Of line or trunk 266.08Predictive algorithm 247With display 266.09Home agent 248Using matrix 266.1Call record 249For nuisance call mitigation		_		
247With display 266.09Home agent 248Using matrix 266.1Call record 249For nuisance call mitigation			266 08	3,
248Using matrix 266.1Call record 249For nuisance call mitigation				
249For nuisance call mitigation				
			200.I	Call 160014
250 .Four-wire switching				
	<b>∠</b> 50	.Four-wire switching		

258	.Switching controlled in response	292	Electronic crosspoint (e.g.,
	to called station addressing	0.00	solid-state)
250	signal	293	Having line finder
259	Including deflected electron beam switching device or	294	Including electronic element
	3	205	(e.g., tube or semiconductor)
	<pre>mechanical or optical switching control (e.g.,</pre>	295	Plural
	fluidic)	296	With repeater
260	With operator position or	297	Having specified busy-idle test
200	completion of call (e.g., dial	298	Direct control
	"O", semiautomatic)	299	Step-by-step system
261	Operator controlled register-	300	Having plural wiper sets
201	sender	301	Having potential control
262	Call extension by operator	302	Having rotary switch
263	With call indicator or	303	Coordinate system (e.g., X-Y)
203	announcer	304	All relay type
264	A to B operator	305	Having motor-driven switch
267	<del>-</del>	306	With crosspoint switch detail
	Operator's console	307	With power supply
268	Having shared or common	308	.Switching apparatus for
260	switching control		connecting calling line to
269	Distributed control		operator's position
270	In-stage or interstage	309	Call distribution or queuing
071	scanning (e.g., link scanning)	310	.Divided central (e.g.,
271	Having multistage switching		communication between
272	Path selection or routing		switchboards)
273	Alternate routing	311	Having signalling path feature
274	With busy or idle test	312	.Having multiple answering jacks
275	Including marking circuit		for multiplied line
276	End-to-end marking (e.g.,	313	.Multiple section switchboard
0.55	self-seeking)	314	Auxiliary (e.g., overflow)
277	With busy or idle test	315	.With line-signal control
278	Interstage junctor or "trunk"	316	Spring-jack cut-off
279	Control reliability (e.g.,	317	Relay cut-off
0.00	redundancy)	318	Central power source
280	Including registering or storing device for call	319	.Single switchboard (e.g., cord
	address signal	220	circuit)
281	Conversion between dial pulse	320	Switchboard circuit
	and voice frequency signal	321	<pre>Connection to operator's   terminal</pre>
282	Voice frequency receiver	322	.Power supply
283	Dual tone multifrequency	323	Power to switching equipment
	(DTMF) receiver	324	Central power source (e.g.,
284	With processor		common battery, line current
285	With magnetic memory		feed)
286	Signal processing (e.g., dial	325	.Structure of equipment
	pulse analysis)	326	Wire or cable distribution
287	Electronic	327	Main or intermediate
288	Register-sender		distribution frame
289	Translator	328	Equipment mounting or support
290	With time division of control	329	Allowing movement of equipment
	or supervisory signals		(e.g., movable, modular)
291	With detail of crosspoint	330	Housing
	switching structure (e.g.,	331	.Having protective circuit
	crossbar)	332	.Plug and socket

333	CONCENTRATOR OR TRUNK SELECTOR	352	.Substation originated
334	.Concentrator-distributor pair	353	Conversion of signal form
334	(e.g., line concentrator)	354	With called number display
335	, 3 ,	355.01	
333	.Using crossbar or crosspoint switching	355.01	Repertory or abbreviated call signal generation
336	.With magnet, electromagnet, or relay	355.02	Call address signal stored in terminal
337	.With busy-idle test (e.g., idle trunk finder)	355.03	Including terminal other than telephone
338	REPEATER (E.G., VOICE FREQUENCY)	355.04	Call address signal stored in
339	.With signal conversion (e.g., dial to DTMF, analog to PCM)	355.05	networkModification of call address
340	.Having line length compensation	333.03	signal for abbreviated dialing
	or equalization	355.06	Modification by other than
341	.Pulse or tone repeater (e.g.,		key input
342	<pre>electromechanical relay)Electronic (e.g., logic   circuitry)</pre>	355.07	Including modification of indicia associated with a call address
343	.Controlled by a pilot or	355.08	Including prefix in the call
3 13	reference signal		address signal
344	.Component processes	355.09	Selection of registered call
	bidirectional signals		address signal
345	Including two-to-four wire	355.1	Selection of multiple call
	conversion or hybrid circuit		address signals
346	.With frequency discriminator or	356.01	Including dynamic memory
	negative impedance element	357.01	Insertable control element or
347	.With gain or attenuation control		circuitry (e.g., card)
348	.Transmission of power to distant	357.02	Personal computer memory card
	repeater		(PCMCIA)
349	.Having voice frequency	357.03	Acoustical generation
	transformer	357.04	Circuitry of call signal
406.01	ECHO CANCELLATION OR SUPPRESSION		generator
406.02	.Combined diverse function	357.05	Including solid state memory
406.03	Additional signal enhancement		storage
	<pre>(e.g., voice processing or recognition)</pre>	358	By motor driven dial rotating device
406.04	.Disable or inhibit function	359	Pulse signal generating (e.g.,
406.05	.Residual echo cancellation		dialing)
406.06	.Using digital signal processing	360	Voice frequency band signalling
406.07	Using attenuator		(e.g., reed devices)
406.08	Adaptive filtering	361	Electronic (e.g., tone
406.09	Least mean squares (LMS)		generator)
	algorithm	362	Pulse signal generator (e.g.,
406.1	With training sequence		rotary dial)
406.11	Convolution processing	363	Control of motor driven dial
406.12	Frequency domain analysis		rotating device
406.13	Fourier analysis	364	With nonrotary actuator (e.g.,
406.14	Sub-band analysis		key or slide type)
406.15	Additional analog processing	365	Specified switching contact
406.16	.Having analog variolosser or		(e.g., contact spring)
	attenuator	366	With detail of dial return
350	SUPERVISORY OR CONTROL LINE		mechanism (e.g., driving
	SIGNALING		spring, speed governor)
351	.Signalling integrity protection	367	Finger wheel or mechanical
	(e.g., voice signal immunity)		adjunct (e.g., finger stop)
	J		

368	Plural-switch number input	388.05	Voice switching by
	device (e.g., keypad)		attenuation/amplification
369	Detail of mounting of switch	388.06	Comparing signal level of
	pad or dial		receiving and transmitting
370	In handset		circuits
371	Magneto signalling	388.07	Controlling acoustic feedback
372	.Signal reception at substation	390.01	Amplification or attenuation
373.01	Incoming call alerting		level control
373.02	Distinctive or selective	390.02	Filtering (FIR, HPF, Widrow-
	alerting		Hoff, LMS)
373.03	Registration of alerting	390.03	Automatic gain control
	signal in association with	390.04	Hybrid circuit
	incoming signal	391	.Sidetone control or hybrid
373.04	Recording audio for use as		circuit (e.g., induction coil)
	the alerting signal	392	Suppression (e.g.,
373.05	Directing incoming call to		antisidetone)
	local appliance	392.01	.Noise suppression
374.01	Including musical sound	393	.Hold circuit
	generation	394	.Impedance matching or line
374.02	Including audible message		equalizing
	generation	395	.Amplifying (e.g., AGC or AVC)
374.03	Alerting by other than sight	395.01	.Power control or detection
	or sound (e.g., vibration)		circuit
375.01	Having electronic call sounder	396	.Visual signalling (e.g., lamp)
	(e.g., tone "ringer")	397	.Wire distribution
376.01	Visual indication of incoming	398	LINE EQUALIZATION OR IMPEDANCE
	call (e.g., LED or light bulb)		MATCHING
$2\pi$ $\sim$ $\sim$	~!	00001	
376.02	Silencing ring signal	399.01	SUBSCRIBER LINE OR TRANSMISSION
376.02 377	.Using line or loop condition		LINE INTERFACE
377	.Using line or loop condition detection (e.g., line circuit)	399.01 399.02	LINE INTERFACE .Circuitry to provide a coder and
	<pre>.Using line or loop condition   detection (e.g., line circuit)With current controlling</pre>	399.02	LINE INTERFACE  .Circuitry to provide a coder and decoder function
377	<ul><li>.Using line or loop condition detection (e.g., line circuit)</li><li>.With current controlling electromagnetic core device</li></ul>	399.02	LINE INTERFACE  .Circuitry to provide a coder and decoder function .For line length compensation
377 378	<ul><li>.Using line or loop condition detection (e.g., line circuit)</li><li>.With current controlling electromagnetic core device (e.g., Hall-effect device)</li></ul>	399.02 400 401	LINE INTERFACE  .Circuitry to provide a coder and decoder function .For line length compensationVoltage boosting circuit
377	.Using line or loop condition detection (e.g., line circuit)With current controlling electromagnetic core device (e.g., Hall-effect device)With optical link between line	399.02 400 401 402	LINE INTERFACE  .Circuitry to provide a coder and decoder function  .For line length compensation  .Voltage boosting circuit  .Hybrid circuit
<ul><li>377</li><li>378</li><li>379</li></ul>	.Using line or loop condition detection (e.g., line circuit)With current controlling electromagnetic core device (e.g., Hall-effect device)With optical link between line and switching system	399.02 400 401 402 403	LINE INTERFACE  .Circuitry to provide a coder and decoder function  .For line length compensation  .Voltage boosting circuit  .Hybrid circuit  .With adjustable balance circuit
<ul><li>377</li><li>378</li><li>379</li><li>380</li></ul>	.Using line or loop condition detection (e.g., line circuit)With current controlling electromagnetic core device (e.g., Hall-effect device)With optical link between line and switching systemBy bridge circuit	399.02 400 401 402 403 404	LINE INTERFACE  .Circuitry to provide a coder and decoder function .For line length compensationVoltage boosting circuitHybrid circuitWith adjustable balance circuitAutomatic adjustment
377 378 379 380 381	.Using line or loop condition detection (e.g., line circuit)With current controlling electromagnetic core device (e.g., Hall-effect device)With optical link between line and switching systemBy bridge circuitBusy test or make busy	399.02 400 401 402 403 404 405	LINE INTERFACE  Circuitry to provide a coder and decoder function  For line length compensation  Voltage boosting circuit  Hybrid circuit  With adjustable balance circuit  Automatic adjustment  Electronic noninductive
<ul><li>377</li><li>378</li><li>379</li><li>380</li></ul>	.Using line or loop condition detection (e.g., line circuit)With current controlling electromagnetic core device (e.g., Hall-effect device)With optical link between line and switching systemBy bridge circuitBusy test or make busyFor ring trip or polarity	399.02 400 401 402 403 404 405 412	LINE INTERFACE  .Circuitry to provide a coder and decoder function  .For line length compensation  .Voltage boosting circuit  .Hybrid circuit  .With adjustable balance circuit Automatic adjustment Electronic noninductive  .Protective circuit
377 378 379 380 381 382	.Using line or loop condition detection (e.g., line circuit) .With current controlling electromagnetic core device (e.g., Hall-effect device) .With optical link between line and switching system .By bridge circuit .Busy test or make busy .For ring trip or polarity reversal detection	399.02 400 401 402 403 404 405	LINE INTERFACE  .Circuitry to provide a coder and decoder function .For line length compensationVoltage boosting circuitHybrid circuitWith adjustable balance circuitAutomatic adjustmentElectronic noninductive .Protective circuit .Power supply (e.g., battery
377 378 379 380 381 382 383	.Using line or loop condition detection (e.g., line circuit) .With current controlling electromagnetic core device (e.g., Hall-effect device) .With optical link between line and switching system .By bridge circuit .Busy test or make busy .For ring trip or polarity reversal detection .Of plural lines	399.02 400 401 402 403 404 405 412 413	LINE INTERFACE  .Circuitry to provide a coder and decoder function .For line length compensation .Voltage boosting circuit .Hybrid circuit .With adjustable balance circuitAutomatic adjustmentElectronic noninductive .Protective circuit .Power supply (e.g., battery feed)
377 378 379 380 381 382 383 384	.Using line or loop condition detection (e.g., line circuit)With current controlling electromagnetic core device (e.g., Hall-effect device)With optical link between line and switching systemBy bridge circuitBusy test or make busyFor ring trip or polarity reversal detectionOf plural linesBy scanning	399.02 400 401 402 403 404 405 412	LINE INTERFACE  .Circuitry to provide a coder and decoder function .For line length compensation .Voltage boosting circuit .Hybrid circuit .With adjustable balance circuitAutomatic adjustmentElectronic noninductive .Protective circuit .Power supply (e.g., battery feed)Circuitry to provide ringing
377 378 379 380 381 382 383 384 385	.Using line or loop condition detection (e.g., line circuit)With current controlling electromagnetic core device (e.g., Hall-effect device)With optical link between line and switching systemBy bridge circuitBusy test or make busyFor ring trip or polarity reversal detectionOf plural linesBy scanningRelayless	399.02 400 401 402 403 404 405 412 413	LINE INTERFACE  .Circuitry to provide a coder and decoder function .For line length compensation .Voltage boosting circuit .Hybrid circuit .With adjustable balance circuitAutomatic adjustmentElectronic noninductive .Protective circuit .Power supply (e.g., battery feed)Circuitry to provide ringing current supply
377 378 379 380 381 382 383 384	.Using line or loop condition detection (e.g., line circuit)With current controlling electromagnetic core device (e.g., Hall-effect device)With optical link between line and switching systemBy bridge circuitBusy test or make busyFor ring trip or polarity reversal detectionOf plural linesBy scanningRelayless .Signal receiver (e.g., tone	399.02 400 401 402 403 404 405 412 413.01 413.02	LINE INTERFACE  .Circuitry to provide a coder and decoder function .For line length compensation .Voltage boosting circuit .Hybrid circuit .With adjustable balance circuitAutomatic adjustmentElectronic noninductive .Protective circuit .Power supply (e.g., battery feed)Circuitry to provide ringing current supply .Network interface device (NLD)
377 378 379 380 381 382 383 384 385 386	.Using line or loop condition detection (e.g., line circuit) .With current controlling electromagnetic core device (e.g., Hall-effect device) .With optical link between line and switching system .By bridge circuit .Busy test or make busy .For ring trip or polarity reversal detection .Of plural linesBy scanning .Relayless .Signal receiver (e.g., tone decoder)	399.02 400 401 402 403 404 405 412 413	LINE INTERFACE  .Circuitry to provide a coder and decoder function .For line length compensation .Voltage boosting circuit .Hybrid circuit .With adjustable balance circuitAutomatic adjustmentElectronic noninductive .Protective circuit .Power supply (e.g., battery feed)Circuitry to provide ringing current supply .Network interface device (NLD)Including connection for
377 378 379 380 381 382 383 384 385	.Using line or loop condition detection (e.g., line circuit)With current controlling electromagnetic core device (e.g., Hall-effect device)With optical link between line and switching systemBy bridge circuitBusy test or make busyFor ring trip or polarity reversal detectionOf plural linesBy scanningRelayless .Signal receiver (e.g., tone decoder) SUBSTATION OR TERMINAL CIRCUITRY	399.02 400 401 402 403 404 405 412 413.01 413.02	LINE INTERFACE  .Circuitry to provide a coder and decoder function .For line length compensation .Voltage boosting circuit .Hybrid circuit .With adjustable balance circuitAutomatic adjustmentElectronic noninductive .Protective circuit .Power supply (e.g., battery feed)Circuitry to provide ringing current supply .Network interface device (NLD)Including connection for alternate communication line
377 378 379 380 381 382 383 384 385 386 387.01	.Using line or loop condition detection (e.g., line circuit) .With current controlling electromagnetic core device (e.g., Hall-effect device) .With optical link between line and switching system .By bridge circuit .Busy test or make busy .For ring trip or polarity reversal detection .Of plural linesBy scanning .Relayless .Signal receiver (e.g., tone decoder)  SUBSTATION OR TERMINAL CIRCUITRY .Conversion of signal form (e.g.,	399.02 400 401 402 403 404 405 412 413 413.01 413.02 413.03	LINE INTERFACE  .Circuitry to provide a coder and decoder function .For line length compensation .Voltage boosting circuit .Hybrid circuit .With adjustable balance circuitAutomatic adjustmentElectronic noninductive .Protective circuit .Power supply (e.g., battery feed)Circuitry to provide ringing current supply .Network interface device (NLD)Including connection for alternate communication line (e.g., cable)
377 378 379 380 381 382 383 384 385 386 387.01	.Using line or loop condition detection (e.g., line circuit) .With current controlling electromagnetic core device (e.g., Hall-effect device) .With optical link between line and switching system .By bridge circuit .Busy test or make busy .For ring trip or polarity reversal detection .Of plural linesBy scanning .Relayless .Signal receiver (e.g., tone decoder)  SUBSTATION OR TERMINAL CIRCUITRY .Conversion of signal form (e.g., A/D, frequency or phase)	399.02 400 401 402 403 404 405 412 413.01 413.02	LINE INTERFACE  .Circuitry to provide a coder and decoder function .For line length compensation .Voltage boosting circuit .Hybrid circuit .With adjustable balance circuitAutomatic adjustmentElectronic noninductive .Protective circuit .Power supply (e.g., battery feed)Circuitry to provide ringing current supply .Network interface device (NLD)Including connection for alternate communication line
377 378 379 380 381 382 383 384 385 386 387.01 387.02	.Using line or loop condition detection (e.g., line circuit) .With current controlling electromagnetic core device (e.g., Hall-effect device) .With optical link between line and switching system .By bridge circuit .Busy test or make busy .For ring trip or polarity reversal detection .Of plural linesBy scanning .Relayless .Signal receiver (e.g., tone decoder)  SUBSTATION OR TERMINAL CIRCUITRY .Conversion of signal form (e.g., A/D, frequency or phase) .For loudspeaking terminal	399.02 400 401 402 403 404 405 412 413 413.01 413.02 413.03	LINE INTERFACE  .Circuitry to provide a coder and decoder function .For line length compensation .Voltage boosting circuit .Hybrid circuit .With adjustable balance circuitAutomatic adjustmentElectronic noninductive .Protective circuit .Power supply (e.g., battery feed)Circuitry to provide ringing current supply .Network interface device (NLD)Including connection for alternate communication line (e.g., cable)Connection block or module TRANSMISSION LINE CONDITIONING
377 378 379 380 381 382 383 384 385 386 387.01 387.02 388.01	.Using line or loop condition detection (e.g., line circuit) .With current controlling electromagnetic core device (e.g., Hall-effect device) .With optical link between line and switching system .By bridge circuit .Busy test or make busy .For ring trip or polarity reversal detection .Of plural linesBy scanning .Relayless .Signal receiver (e.g., tone decoder)  SUBSTATION OR TERMINAL CIRCUITRY .Conversion of signal form (e.g., A/D, frequency or phase)	399.02 400 401 402 403 404 405 412 413 413.01 413.02 413.03	LINE INTERFACE  .Circuitry to provide a coder and decoder function .For line length compensation .Voltage boosting circuit .Hybrid circuit .With adjustable balance circuitAutomatic adjustmentElectronic noninductive .Protective circuit .Power supply (e.g., battery feed)Circuitry to provide ringing current supply .Network interface device (NLD)Including connection for alternate communication line (e.g., cable)Connection block or module TRANSMISSION LINE CONDITIONING .Reactance neutralizing
377 378 379 380 381 382 383 384 385 386 387.01 387.02 388.01	.Using line or loop condition detection (e.g., line circuit)With current controlling electromagnetic core device (e.g., Hall-effect device)With optical link between line and switching systemBy bridge circuitBusy test or make busyFor ring trip or polarity reversal detectionOf plural linesBy scanningRelayless .Signal receiver (e.g., tone decoder)  SUBSTATION OR TERMINAL CIRCUITRY .Conversion of signal form (e.g., A/D, frequency or phase) .For loudspeaking terminalSpeakerphone with build-in	399.02 400 401 402 403 404 405 412 413 413.01 413.02 413.03 414 415 416	LINE INTERFACE  .Circuitry to provide a coder and decoder function .For line length compensation .Voltage boosting circuit .Hybrid circuit .With adjustable balance circuitAutomatic adjustmentElectronic noninductive .Protective circuit .Power supply (e.g., battery feed)Circuitry to provide ringing current supply .Network interface device (NLD)Including connection for alternate communication line (e.g., cable)Connection block or module TRANSMISSION LINE CONDITIONING .Reactance neutralizing .Interference suppression
377 378 379 380 381 382 383 384 385 386 387.01 387.02 388.01 388.02	.Using line or loop condition detection (e.g., line circuit)With current controlling electromagnetic core device (e.g., Hall-effect device)With optical link between line and switching systemBy bridge circuitBusy test or make busyFor ring trip or polarity reversal detectionOf plural linesBy scanningRelayless .Signal receiver (e.g., tone decoder)  SUBSTATION OR TERMINAL CIRCUITRY .Conversion of signal form (e.g., A/D, frequency or phase) .For loudspeaking terminalSpeakerphone with build-in microphone	399.02 400 401 402 403 404 405 412 413 413.01 413.02 413.03	LINE INTERFACE  .Circuitry to provide a coder and decoder function .For line length compensation .Voltage boosting circuit .Hybrid circuit .With adjustable balance circuitAutomatic adjustmentElectronic noninductive .Protective circuit .Power supply (e.g., battery feed)Circuitry to provide ringing current supply .Network interface device (NLD)Including connection for alternate communication line (e.g., cable)Connection block or module TRANSMISSION LINE CONDITIONING .Reactance neutralizing .Interference suppressionAnticrosstalk
377 378 379 380 381 382 383 384 385 386 387.01 387.02 388.01 388.02	.Using line or loop condition detection (e.g., line circuit)With current controlling electromagnetic core device (e.g., Hall-effect device)With optical link between line and switching systemBy bridge circuitBusy test or make busyFor ring trip or polarity reversal detectionOf plural linesBy scanningRelayless .Signal receiver (e.g., tone decoder)  SUBSTATION OR TERMINAL CIRCUITRY .Conversion of signal form (e.g., A/D, frequency or phase) .For loudspeaking terminalSpeakerphone with build-in microphoneAutomatic gain or volumn (AGC	399.02 400 401 402 403 404 405 412 413 413.01 413.02 413.03 414 415 416 417	LINE INTERFACE  .Circuitry to provide a coder and decoder function .For line length compensation .Voltage boosting circuit .Hybrid circuit .With adjustable balance circuitAutomatic adjustmentElectronic noninductive .Protective circuit .Power supply (e.g., battery feed)Circuitry to provide ringing current supply .Network interface device (NLD)Including connection for alternate communication line (e.g., cable)Connection block or module TRANSMISSION LINE CONDITIONING .Reactance neutralizing .Interference suppression
377 378 379 380 381 382 383 384 385 386 387.01 387.02 388.01 388.02 388.03	.Using line or loop condition detection (e.g., line circuit)With current controlling electromagnetic core device (e.g., Hall-effect device)With optical link between line and switching systemBy bridge circuitBusy test or make busyFor ring trip or polarity reversal detectionOf plural linesBy scanningRelayless .Signal receiver (e.g., tone decoder)  SUBSTATION OR TERMINAL CIRCUITRY .Conversion of signal form (e.g., A/D, frequency or phase) .For loudspeaking terminalSpeakerphone with build-in microphoneAutomatic gain or volumn (AGC or AVC)	399.02 400 401 402 403 404 405 412 413 413.01 413.02 413.03 414 415 416 417	LINE INTERFACE  .Circuitry to provide a coder and decoder function .For line length compensation .Voltage boosting circuit .Hybrid circuit .With adjustable balance circuitAutomatic adjustmentElectronic noninductive .Protective circuit .Power supply (e.g., battery feed)Circuitry to provide ringing current supply .Network interface device (NLD)Including connection for alternate communication line (e.g., cable)Connection block or module TRANSMISSION LINE CONDITIONING .Reactance neutralizing .Interference suppressionAnticrosstalk CALL SIGNAL GENERATING (E.G.,

420.01	.Having loudspeaking conversation capability (e.g., hands- free	434	Specified terminal configuration (e.g., novelty
420.02	type or speakerphone)	435	type)
	Hands-free loudspeaker feature		Wall set or convertible type
420.03	Hands-free microphone feature	436	Desk set
420.04	Hands-free accesory or	437	Protective structure
404	attachment	438	Of cord or connector
421	.Having muting	439	Antiseptic
422	.Switch or switch actuator	440	Casing or enclosure, per se
	structure	441	TERMINAL ACCESSORY OR AUXILIARY
423	Line selection		EQUIPMENT
424	Receiver or handset position responsive (e.g., hookswitch)	442	.With circuit connection to terminal
425	With mechanism for latching	443	.Including coupler (e.g.,
	hookswitch or plunger against		inductive)
	motion	444	Acoustic
426	Movable holder for receiver or	445	.Locking device
	handset	446	.Telephone receiver support
427	Having plunger and lever	447	.Attachable to terminal housing
	linkage	448	Hookswitch operator
428.01	.Housing or housing component	449	Handset holder (e.g., shoulder
428.02	Handset or headset combined	-	rest)
400 00	with telephone base	450	Clips onto terminal structure
428.03	Display on telephone base	451	.Protective structure
428.04	Base having detachable accessory	452	<pre>Antiseptic, disinfecting, or disposable</pre>
429	Having distinct circuitry	453	.Hood or enclosure (e.g., booth)
	support structure (e.g.,	454	.Support or stand
	circuit board)	455	Handset holder
430	Body supported (e.g., headgear)	456	.Dialing tool
431	Separate housings for earphone	457	MISCELLANEOUS
	<pre>and microphone (e.g., candlestick type)</pre>	13 /	
433.01	Handset structure		
433.02	Speaker mounting (i.e., speaker phone feature)	CROSS-I	REFERENCE ART COLLECTIONS
433.03	Microphone mounting		
433.04	Display on handset	900	INTERNET (E.G., INTERNET PHONE,
433.05	Connector		WEBPHONE, INTERNET-BASED
	Button or switch having		TELEPHONY)
433.00	specific function	901	VIRTUAL NETWORKS OR VIRTUAL
433.07	Keypad		PRIVATE NETWORKS
433.08	Battery	902	AUTO-SWITCH FOR AN INCOMING VOICE
433.09	Card (e.g., SIM or magnetic		DATA, OR FAX TELEPHONE CALL
433.09	strip card)		(E.G., COMP/FAX/TEL)
122 1	-	903	PASSWORD
433.1	Handset having special feature	904	AUTO-CALLING
122 11	(e.g., wrist watch)	905	FAX MAIL
433.11	Moveable or removeable element	906	TOUCHTONE MESSAGE TRANSMISSION
122 10	(e.g., cover)	907	SPEECH RECOGNITION VIA TELEPHONE
433.12	Slideable mechanism		SYSTEM OR COMPONENT
433.13	Rotatable mechanism (e.g.,	908	MULTIMEDIA
420	hinge)	909	ALTERNATIVES
432	Loudspeaking set	910	BAR CODE OR OPTICAL CHARACTER
			READER WITH TELEPHONE

911	DISTINCTIVE RINGING
912	GEOGRAPHICALLY ADAPTIVE
913	PERSON LOCATOR OR PERSON-SPECIFIC
914	PROGRAMMABLE TELEPHONE COMPONENT
915	."Soft" key
916	TOUCH SCREEN ASSOCIATED WITH
	TELEPHONE SET
917	VOICE MENUS

## FOREIGN ART COLLECTIONS

## FOR 000 CLASS-RELATED FOREIGN DOCUMENTS

Any foreign patents or non-patent literature from subclasses that have been reclassified have been transferred directly to FOR Collection listed below. These collections contain ONLY foreign patents or nonpatent literature. The parenthetical references in the Collection titles refer to the abolished subclasses from which these Collections were derived.

- FOR 100 HAVING NEAR FIELD LINK (E.G., CAPACITIVE, INDUCTIVE) (379/55)
- FOR 101 HAVING ELECTROMAGNETIC LINK FOR SPEECH OR PAGING SIGNAL (E.G., LIGHT WAVE LINK) (379/56)
- FOR 112 TELEPHONE LINE OR SYSTEM COMBINED
  WITH DIVERSE ELECTRICAL SYSTEM
  OR SIGNALLING (E.G.,
  COMPOSITE) (379/90)
- FOR 113 .Credit authorization (379/91)
- FOR 114 .Polling (e.g., audience survey) (379/92)
- FOR 115 .With transmission of a digital message signal over a telephone line (379/93)
- FOR 116 ..Including switching station (379/94)
- FOR 117 .. Access restricting (379/95)
- FOR 118 .. Including terminal for display of digital information (379/96)
- FOR 119 ..By voice frequency signal (e.g., tone code) (379/97)
- FOR 120 ...By modulated audio tone (379/
- FOR 121 ... Having acoustic link (379/99) FOR 148 .. Call charge metering or

- FOR 122 .To produce visual-graphic copy reproduction (e.g., facsimile) (379/100)
- FOR 123 .Audio program distribution (379/
- FOR 124 .Remote control (379/102)
- FOR 125 .. Of entrance or exit lock (379/
- FOR 126 .. With indication (379/104)
- FOR 127 .. From terminal (379/105)
- FOR 128 .Remote indication over telephone line (e.g., telemetry) (379/
- FOR 129 .. Meter reading (379/107)
- FOR 130 .Telegraphy (379/108)
- FOR 131 .. Over telephone line (379/109)
- FOR 132 COMPOSITE SUBSTATION OR TERMINAL
  (E.G., HAVING CALCULATOR,
  RADIO) (379/110)
- FOR 133 WITH AUDIO MESSAGE STORAGE AND RETRIEVAL (379/67)
- FOR 134 .Stored in digital form (379/88)
- FOR 135 ...Subscriber control of central office message storage or retrieval (379/89)
- FOR 136 .DIAGNOSTIC TESTING, MALFUNCTION, INDICATION, OR ELECTRICAL CONDITION MEASUREMENT (379/1)
- FOR 137 .. By loopback (379/5)
- FOR 138 ..By analysis of injected tone signal (379/6)
- FOR 139 ..By automatic testing sequence (e.g., programmable, scanning) (379/10)
- FOR 140 .Of automatic switching equipment (379/15)
- FOR 141 ..Fault detection or location (e.g., continuity, leakage) (379/26)
- FOR 142 .Of subscriber loop or terminal (379/27)
- FOR 143 ..Terminal arrangement to enable remote testing (e.g., testing interface) (379/29)
- FOR 144 .Indication of nonstandard condition of telephone equipment (379/32)
- FOR 145 ...SERVICE MONITORING OR OBSERVATION (379/34)
- FOR 146 .Computer or processor control (379/112)
- FOR 147 ..Call traffic recording (379/
- FOR 148 ..Call charge metering or monitoring (379/114)

- FOR 149 ....Interexchange operations (379/115)
- FOR 150 **AT CENTRAL OFFICE (379/121)**
- FOR 151 .Having line identification

  (e.g., automatic number

  identification-"ANI") (379/
  127)
- FOR 152 WITH CALLING NUMBER DISPLAY OR RECORDING AT CALLED SUBSTATION (379/142)
- FOR 153 .Other than coin (379/144)
- FOR 154 .PRIVATE (E.G., HOUSE OR INTERCOM) OR SINGLE LINE SYSTEM (379/167)
- FOR 155 .SPECIAL SERVICES (379/201)
- FOR 156 .. Conferencing (379/202)
- FOR 157 .. Operator control (379/203)
- FOR 158 .Subscriber control (379/204)
- FOR 159 ..Conference initiation by single calling sation (379/205)
- FOR 160 ... At substation (379/206)
- FOR 161 .... At plural exchange (379/207)
- FOR 162 ..Priority override (e.g., buttin) (379/208)
- FOR 163 ...Repetitive call attempts
  (e.g., camp-on-busy, retry)
  (379/209)
- FOR 164 ...Call diversion (e.g., call capture) (379/210)
- FOR 165 .. Call forwarding (379/211)
- FOR 166 ... Call transfer (379/212)
- FOR 167 ...Intercept (e.g., dead or changed number) (379/213)
- FOR 168 ...Secretarial or answering service (379/214)
- FOR 169 .. Call waiting (379/215)
- FOR 170 .Abbreviated dialing or direct call (e.g., hot line) (379/216)
- FOR 171 .. Audible paging (379/217)
- FOR 172 ..Performed by operator (e.g., butt-in, busy verification) (379/218)
- FOR 173 .With interexchange network routing (379/220)
- FOR 174 .Alternate routing (379/221)
- FOR 175 ...Call distribution to operator (379/265)
- FOR 176 ... Call queuing (379/266)
- FOR 177 ..Repertory or abbreviated call signal generation (379/355)
- FOR 178 .. With dynamic memory (379/356)
- FOR 179 ...Insertable control element or circuitry (e.g., card) (379/ 357)

- FOR 180 .Incoming call alerting (e.g., ringing) (379/373)
- FOR 181 .With music or audible message generation (379/374)
- FOR 182 ..With electronic call sounder (e.g., tone "ringer") (379/
- FOR 183 ...With visual indication of incoming call (379/376)
- FOR 184 SUBSTATION OR TERMINAL CIRCUITRY (379/387)
- FOR 185 .For loudspeaking terminal (379/ 388)
- FOR 186 ..With circuitry for voice control of transmission direction (379/389)
- FOR 187 ..With amplification or attenuation level control (379/390)
- FOR 188 SUBSCRIBER LINE OR TRANSMISSION LINE INTERFACE (379/399)
- FOR 189 .Echo suppresion, antisinging, or reverse path blocking (379/406)
- FOR 190 .. Disable or inhibit (379/407)
- FOR 191 ..Control by pilot frequency signal (379/408)
- FOR 192 ..Having variolosser or attenuator (379/409)
- FOR 193 .. Echo cancellation (e.g., phase opposition) (379/410)
- FOR 194 ...Having transversal filter (379/411)
- FOR 195 .Having loudspeaking conversation capability (e.g., hands-free type or speakerphone) (379/420)
- FOR 196 .Housing or housing component (379/428)
- FOR 197 ...Handset structure (379/433)